# STORM DATA





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Nemel D Waden

DIRECTOR NATIONAL CLIMATIC DATA CENTER

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Cover: A car hangs over a guardrail and large slabs of dislodged pavement grace the shoulder of Texas Highway 16 south of Comanche, Texas after a flash flood submerged the highway bridge over Mercer Creek overnight on May 31st and June 1st, 1988. Rainfall of 14 inches was recorded in Comanche during the episode (see HEAVY RAINS and Flash Flooding in NORTH-CENTRAL TEXAS...., pages 6 through 11).
---Photo by Steve Tulcus, The Brownwood Bulletin, Brownwood, Texas.

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# STORM DATA (ISSN 0039-1972)

The section on Outstanding Storms of the Month is prepared by Professor T. Theodore Fujita, editor, and Duane J. Stiegler, associate editor, the University of Chicago, with funding by the U. S. Office of Naval Research. The Storm Data and Unusual Weather Phenomena narratives, and summaries of Hurricanes/Tropical Storms are prepared by the National Weather Service. The National Climatic Data Center compiles statistics on deaths, injuries, damage and prepares the annual summaries of tornadoes and Lightning. This publication contains our best information on storms, but due to the difficulties inherent in collection of this type of data it is not all-inclusive. Late reports and corrections will be carried quarterly. Maps of zones used in the Storm Data and Unusual Weather Phenomena will be published in all editions.

Storm Data is published monthly by the National Climatic Data Center.

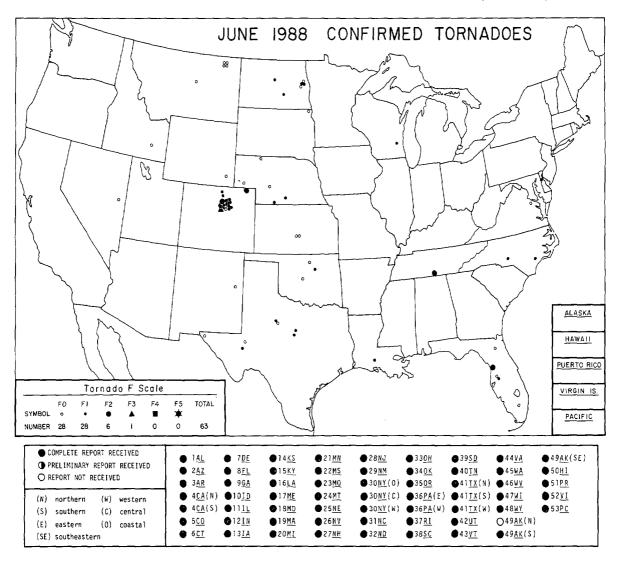
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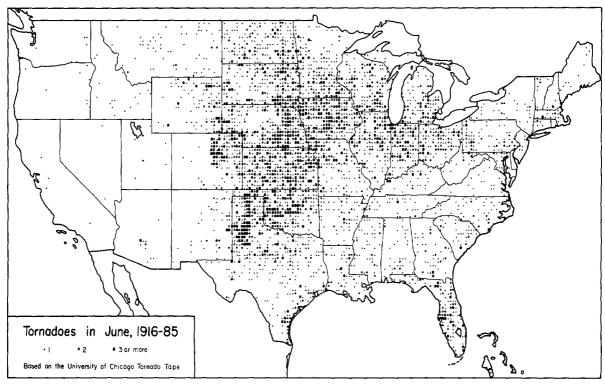
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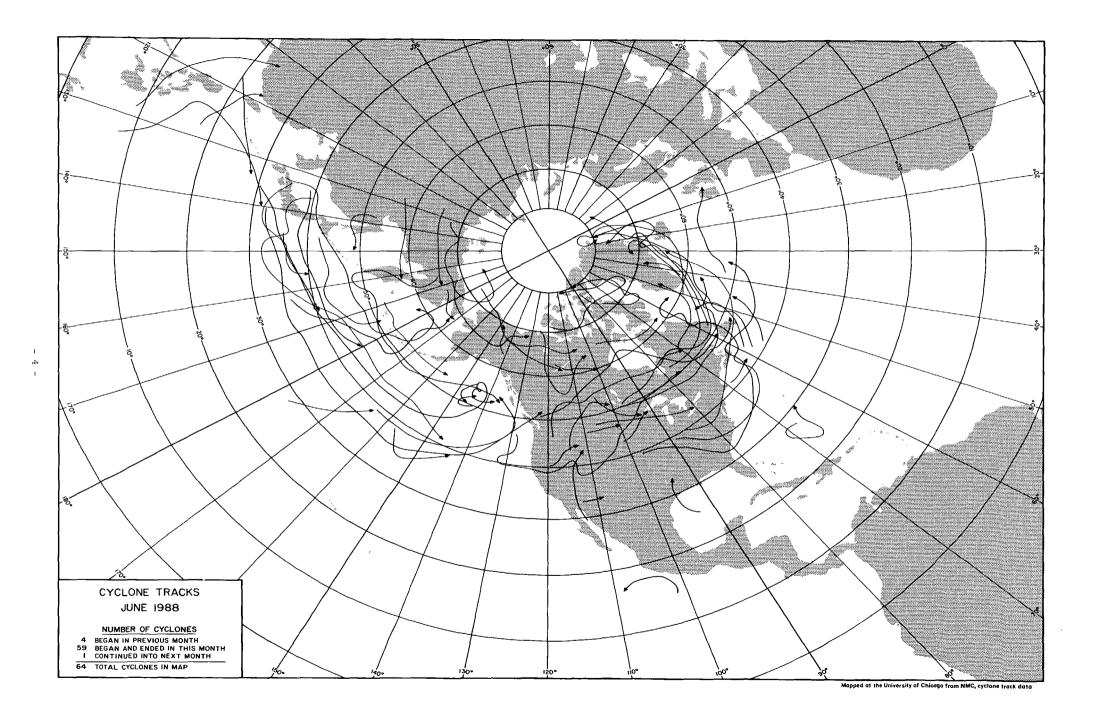
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# OUTSTANDING STORMS OF THE MONTH



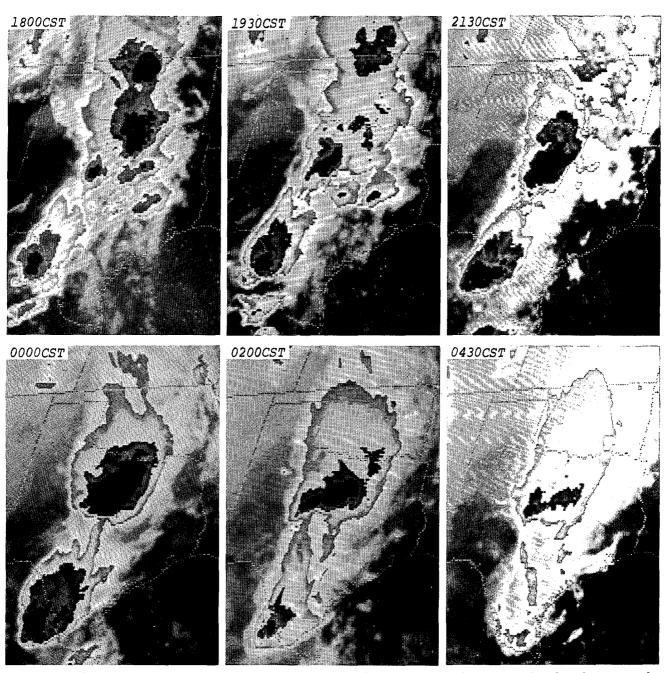




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#### 1. HEAVY RAINS and FLASH FLOODING in NORTH-CENTRAL TEXAS on May 31 to June I, 1988

During the late evening of May 31st, heavy thunderstorm rains began to produce flash flooding in Eastland, Comanche and Erath counties of North-Central Texas, southwest of the Dallas - Fort Worth area. The rains and flooding continued through the pre-dawn morning of June 1st while spreading to Brown and Hamilton counties in the same area, and Denton, Tarrant and Dallas counties in the Dallas - Fort Worth area. The largest rainfalls occurred in Comanche County where DeLeon received 7.6 inches, and the county seat Comanche received a whopping 14 inches. Likewise, the area received the worst of the flooding as Indian Creek in Comanche poured out of its banks, its waters infiltrating about 150 homes and washing away two businesses. Damage in Comanche was estimated at 3 to 5 million dollars in value, and over 300 people in the town were evacuated. In DeLeon, waters from a small creek covered streets to a two foot depth, and a car was washed downstream. About 3 miles south of Comanche, an earthen dam on Lake Eanes failed and sent a wall of water down Mercer Creek to Lake Comanche. Many highways in Comanche County were closed due to the flooding, and street flooding was a problem in urban areas of all of the affected counties.

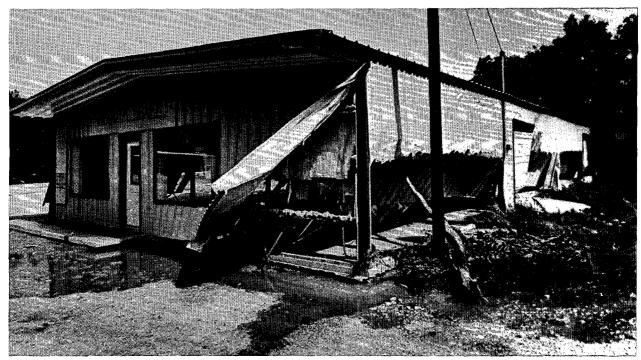


GOES 6 satellite, infrared images taken during a 10.5 hour period late on May 31st (top row) and early on June 1st (bottom row), show the nearly motionless thunderstorm system that sat over north-central Texas and dumped its flood-producing rains. A sister storm formed south of the Rio Grande in Mexico and moved slowly southeastward into extreme southern Texas during the period. ---Photos from NESDIS, Washington, DC.

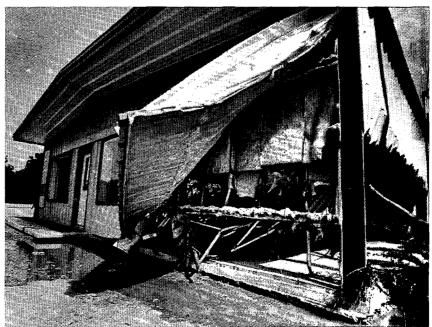


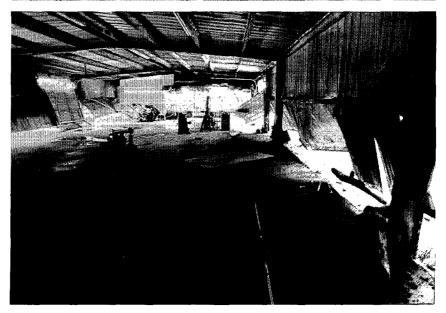


At top, U.S. Highway 67/377 is seen engulfed at an underpass near a low water crossing of Indian Creek at the west edge of Comanche, early on the morning of June 1st, with debris left by the receding floodwater covering much of the emerging road surface. At bottom, the same location is seen as a road crew completes the cleanup.——Both photos from the Brownwood Bulletin, Brownwood, Texas; bottom photo by Steve Tulcus.



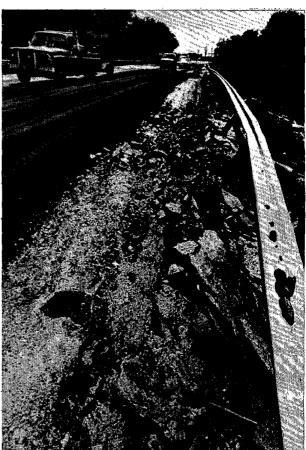
Situated only 50 feet from the banks of Indian Creek and about one block from the viaduct shown on the previous page, this building housed Carouth Craft, one of two businesses in Comanche damaged by the flood. Although the steel frame of the building remained intact, the rapidly flowing water forced its way through the building, bending the sheet metal walls inward on the upstream side and outward on the downstream side. Cabinets that were manufactured inside were washed out of the building and carried downstream, eventually ending up captured in bushes and trees as the waters receded.





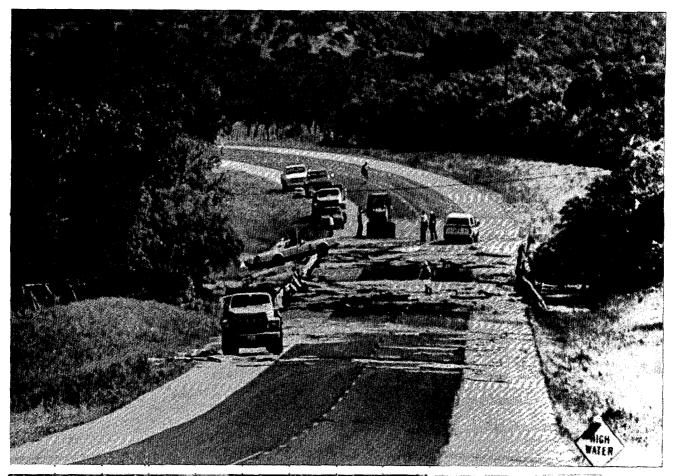


Erosion damage to the road surface and guardrail of Texas Highway 36 just east of Comanche where it crosses Indian Creek. Repairs were already under way as fresh asphalt had just been spread over the driving lanes.





Grass, cactus and a debris-covered fence reflect the effects of the flash flooding that occurred on a small tributary of Mercer Creek 6 miles southwest of Camanche along Farm-to-Market Road 590.





Eight miles south of Comanche, this low section of Texas Highway 16 had large sections of the pavement lifted and carried off the roadbed by floodwaters of Mercer Creek. It was 7 miles upstream of this location that an earthen dam on Lake Eanes gave way, however a second dam on Lake Comanche, about 4 miles upstream, held. Both views above are toward the south, and the direction of flow was from right to left (east).

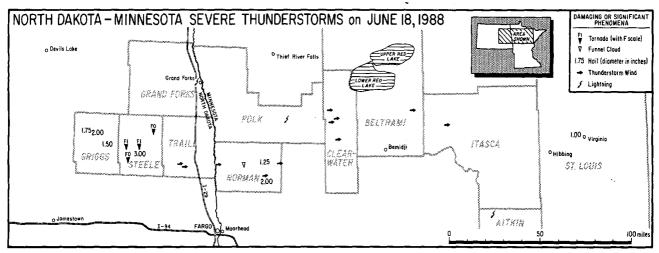


Three closer views of the road damage on Texas Highway 16 at Mercer Creek. The auto left hanging on the guard-rail was under water for at least 5 hours, as was noted by a volunteer helper who arrived on the scene after the vehicle was swept in and subsequently prevented other drivers from accidentally entering the hazardous waters.

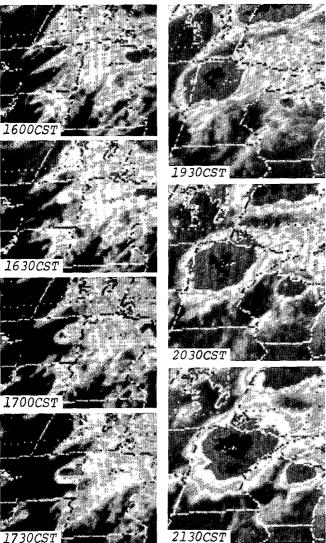
--- All photos on pages 8 through 11 are by Steve Tulcus, The Brownwood Bulletin, Brownwood, Texas.

#### 2. SEVERE THUNDERSTORMS in NORTH DAKOTA and MINNESOTA on June 18, 1988

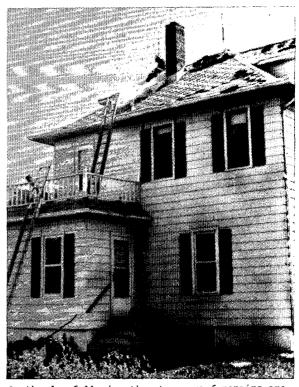
On the afternoon of June 18th, a severe thunderstorm erupted over eastern North Dakota and developed into a storm complex that later, during the evening hours, moved eastward across northern Minnesota. The storm brought a variety of severe weather phenomena to the area, first dropping large hail of up to two inches in diameter as it formed in Griggs County, and then striking the Finley area of Steele County with four tornadoes and hail of up to 3 inches in diameter. The tornadoes caused structural and equipment damage at many farms south of Finley, and crop damage from the hail, as large as peaches in some spots, was extensive. Some farmers reported a 100% crop loss. As the storm system enlarged and moved east, the form of its fury became more diverse but far less destructive, as only spotty reports of high winds, lightning, large hail, and a funnel cloud were received from the large area that the storm traversed.



Distribution of severe thunderstorm phenomena reported in eastern North Dakota and northern Minnesota on June 18, 1988. Only affected counties are indicated. ---Graphic by the University of Chicago from data supplied by NWSFO's at Minnesota and Bismarck, North Dakota.



LEFT: GOES 6 satellite, infrared images show the storm's birth and steady growth while producing the tornadoes and large hail over eastern North Dakota on the afternoon of June 18th (left column), and its movement eastward across northern Minnesota during the evening after becoming a much more extensive system (right column). ---Photos from NESDIS, Washington, DC.



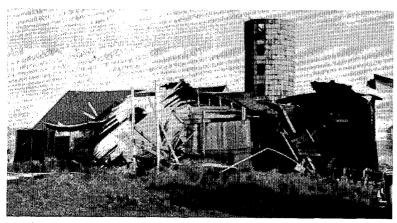
On the day following the storm, roof repairs are underway at the Kindle farm southwest of Finley after a tornado had torn many shingles from the farmhome's roof. ---Photo from the Steele County Press, Finley, North Dakota.



Along North Dakota Highway 200, the tornado southwest of Finley also struck the Ernest Juliuson farm, where a storage shed (left) and wooden quonset (below) were destroyed. The tornado cut a path through trees on the farmstead as well. Another quonset (bottom) was ripped apart at the nearby, Jens Egediuson farm. Equipment stored in each of the quonsets was damaged. ——All photos from the Steele County Press, Finley, North Dakota.







Remains of a tornado-destroyed barn at the Archer farm southwest of A CB tower that a tornado felled over a home Finley.



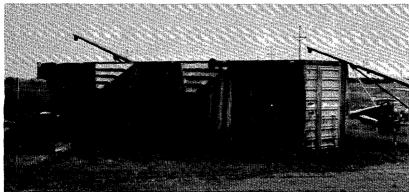
in the Sherbrooke area southeast of Finley.

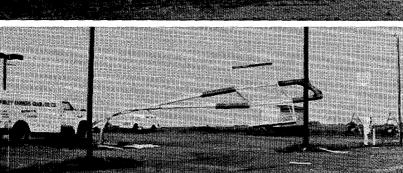


A machine shed at the Mehus farm east of Pickert, southeast of Finley, that was also destroyed by a tornado.

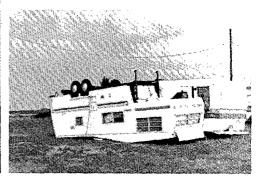


A field of corn in the Pickert-Sherbrooke area southeast of Finley that was reduced to mulch after being pummeled by up to 3-inch diameter hail during the June 18th storm.



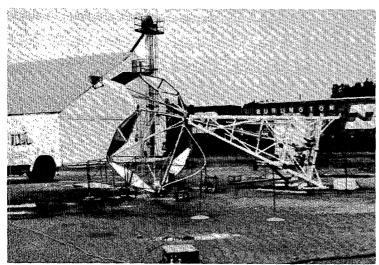


As the June 18th storm brought its tornadoes and hail to areas south and east of Finley, some minor wind damage was also experienced within the town. At the Finley Farmers Oil Company a grain trailer was flipped over (left) and a sign with steel I-beam supports was bent over parallel with the ground (lower left). Two trailers on the east edge of town were flipped over as well (below). After being uprighted, one of the trailers was again overturned by thunderstorm winds on June 20th. ---All photos from the Steele County Press, Finley, North Dakota.



#### 3. THUNDERSTORM WINDS at FINLEY, NORTH DAKOTA on June 20, 1988

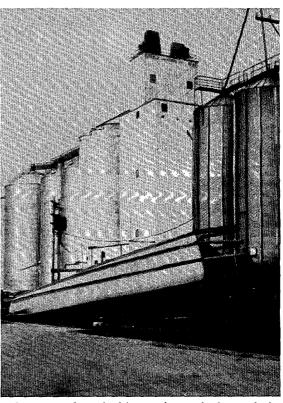
Only two days after the June 18th storm, a thunderstorm again brought damaging winds to the Finley area of Steele County in North Dakota. Winds from a June 20th, evening storm toppled a grain bin and carnival ride in the town, and a lightning strike knocked bricks loose from the top of a building, one of which hit and injured a carnival worker in the street below. Power lines were also downed in this storm, leaving parts of the community without power for several hours.



A carnival ride that was tipped onto its side by the winds.



The top of the Norgaard Farm Service building in Finley, from which numerous bricks were blasted out by a lightning strike.

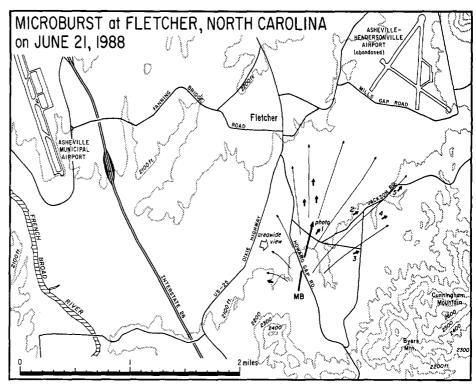


A large metal grain bin at the seed plant of the Finley Farmers Elevator that was blown down by the winds.

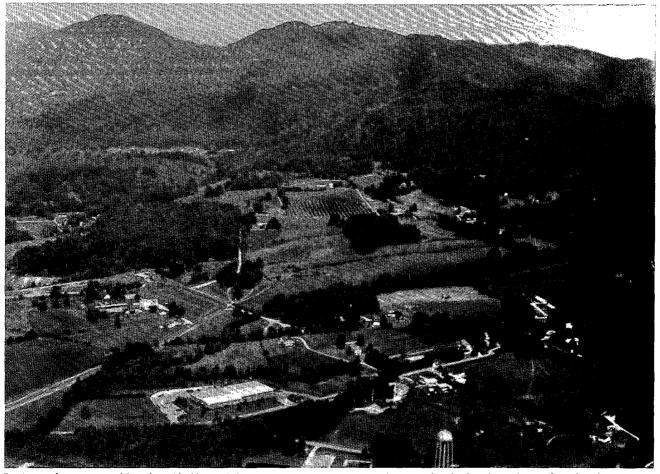
---All photos from the Steele County Press, Finley, North Dakota.

#### 4. MICROBURST at FLETCHER, NORTH CAROLINA on June 21,1988

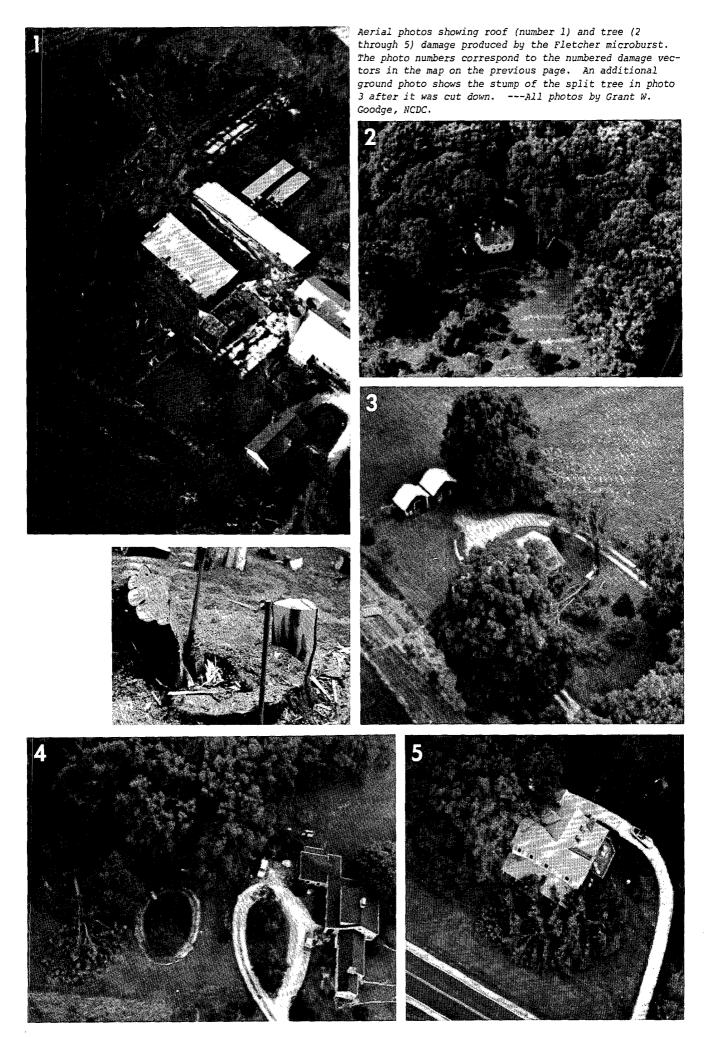
On the afternoon of June 21st, strong thunderstorm winds downed trees and caused minor roof damage at Fletcher, North Carolina, about 11 miles south of Asheville. The true nature of the strong wind, a microburst, was later discovered when the damage was mapped during an aerial survey and showed a diverging pattern in the tree falls and strewn debris. The winds had spread out from the microburst's center as it moved north-northeast from about 1.5 miles south of the center of Fletcher. The damage path, located in a relatively flat spot of the mountainous area, was about 1.5 miles long and one mile wide. It is well established that microbursts are an aviation hazard, particularly during aircraft landings and take-offs, and have been linked to a number of crashes. This one is notable as it occurred quite close to one of the approaches of the Asheville Municipal Airport; luckily, no incident occurred.



Mapping of the June 21, 1988 microburst at Fletcher, North Carolina, including the path of the microburst's center (MB), streamlines marking the windflow, and damage vectors. Numbers accompanying some of the damage vectors correspond to the numbered photos on the following page. ---Map and survey by Grant W. Goodge, National Climatic Data Center, Asheville, North Carolina.



East-southeast areawide view (indicated in map above) of the location south of Fletcher where the microburst descended as it moved north-northeast (right to left in the photo). Cunningham Mountain appears in the background. ---Photo by Grant W. Goodge, NCDC.



#### 5. TORNADO along ALLIGATOR ALLEY in SOUTHERN FLORIDA on June 21, 1988

At 1600 EST on June 21st, a thunderstorm over the Everglades of southern Florida spawned a small tornado that touched down along Interstate 75, Alligator Alley, in western Broward County. The tornado and its parent cloud system were photographed as the tornado formed below a newly-developed wall cloud on a gust front. The tornado, of the "gustnado" type, was in contact with the ground for about three minutes and moved only very slightly to the northeast.



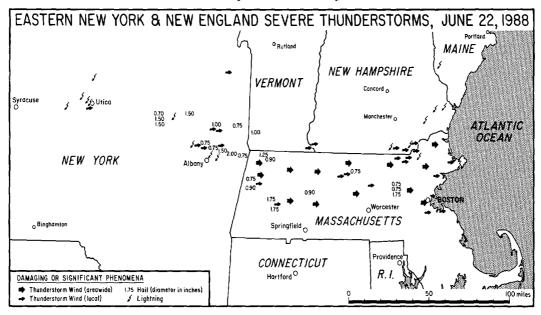
Viewed toward the south from Interstate 75 in western Broward County, the outflow boundary of the parent thunderstorm is seen with a well-developed shelf cloud (right side of the photo) and forming wall cloud.



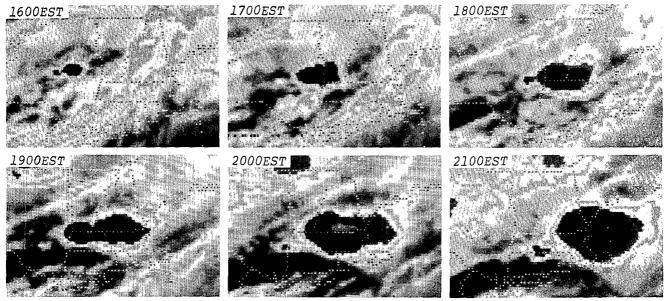
From a point on Interstate 75, 5 miles east of the location where the top photo was taken, the same cloud feature is seen toward the west with the wall cloud now fully developed and the small, short-lived tornado extending from its base to the ground.

#### 6. SEVERE THUNDERSTORMS in EASTERN NEW YORK and NEW ENGLAND on June 22, 1988

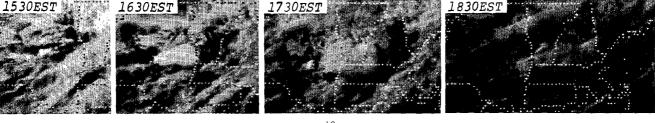
During the afternoon of June 22nd, an unusually strong thunderstorm for the northeast U.S. formed over Fulton County in eastern New York and began moving east, producing strong winds, damaging lightning and large hail along its path which crossed just north of Albany. The pre-frontal storm developed into a multi-cell complex and crossed New England during the evening hours, causing more widespread damage from hail, wind and lightning across the northern half of Massachusetts, southern Vermont and New Hampshire, and extreme southern Maine. Most prevalent were the strong winds which knocked down many trees and limbs, resulting in the disruption of electric service in many areas. Strong wind gusts were recorded at most area airports, the highest of which was 81 mph at the Schenectady Airport. Another storm farther to the west along an approaching front brought mainly damaging lightning to the area around Utica, New York during the late evening hours.



Distribution of severe thunderstorm phenomena reported in east-central New York and New England on June 22, 1988. ---Graphic by the University of Chicago from data supplied by NWSFO's at Portland, Maine and Albany, New York; and the Blue Hill NWS Meteorological Observatory, Milton, Massachusetts.

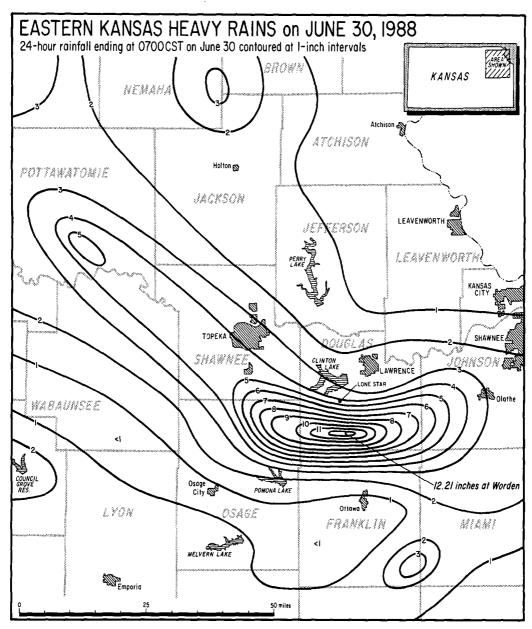


Above, the development and path of the June 22nd storm complex are revealed in a sequence of GOES 6 satellite, infrared images. The system was characterized by the repeated addition of newly-formed cells along a rearward flanking line. A sequence of visible images taken during the daylight portion of the period appears below. ---All photos from NESDIS, Washington, DC.

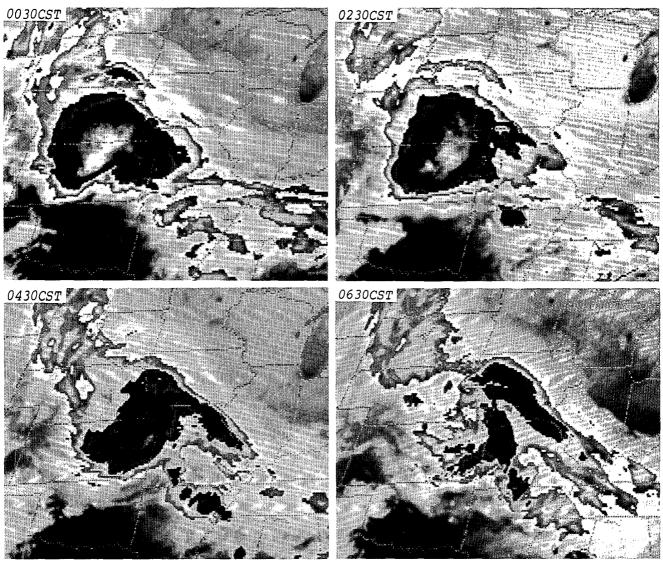


#### 7. HEAVY RAINS and FLASH FLOODING in EASTERN KANSAS on June 30, 1988

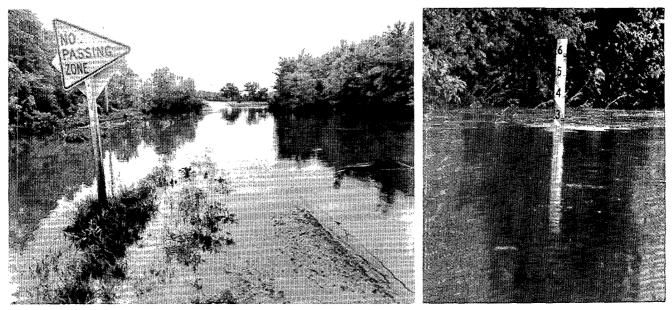
Intense thunderstorms that formed along an instability line late on June 29th, swept rapidly eastward across north-central and eastern Kansas during the early morning hours of June 30th. The wringing effect of the system and ample moisture ahead of it combined for some extremely heavy rainfall rates. Rainfall of up to 5 inches was received over most of the area, but hardest hit was northeast Osage, southern Douglas and northern Franklin counties where rainfall of between 6 and 12 inches was received. The heaviest amount, 12.21 inches, was recorded at Worden, Kansas, about 25 miles southeast of Topeka. Naturally, the deluge resulted in flash flooding throughout the area, and the substantial runoff quickly sent small streams out of their banks. Hardest hit by the flooding was the small community of Lone Star in western Douglas County, where a wall of water 2 to 4 feet deep moved out of Washington Creek and through the town. Every home in the town received some water damage, and damage to the homes alone was estimated at \$700,000. Many roads were washed out or rendered impassable, and a great deal of farmland was submerged as well.



Analysis of storm-total rainfall in northeast Kansas on June 30, 1988. ---Mapped by the University of Chicago from data and analyses supplied by the NWSFO at Topeka, Kansas, and Cooperative Observer data supplied by NCDC, Asheville, North Carolina.



Shown in a sequence of GOES 6 satellite, infrared images taken on June 30th, the initially very cold cloud top of the storm system underwent warming as the complex dumped its heavy rains over northeast Kansas, and the configuration of the system as a whole adopted a more comma-like shape associated with large-scale cyclonic circulations. ---Photos from NESDIS, Washington, DC.



Floodwater covers a road near Lone Star, Kansas (left), and a high water marker is submerged to just below the three foot level in runoff from Lone Star Lake (right). Photographed during the day on the 30th, the water levels were most likely much higher during and just after the rains which had fallen overnight. ---Both photos by Mike Yoder, The Journal World, Lawrence, Kansas.



A farmer from Lone Star uses a tractor to survey the damage done to his crops by the flash flood on the morning of June 30th. A great deal of farmland was submerged in the fast-flowing floodwater, as were many roads. ---Photo by John Bock, The Topeka Capital-Journal, Topeka, Kansas; supplied by the NWSFO at Topeka, Kansas.



Douglas County Route 458 becomes a causeway above flooded fields southwest of Lawrence, Kansas after overflow from Lone Star Lake and the Wakarusa River inundated the area. ---Photo by Mike Yoder, The Journal World, Lawrence, Kansas.



After floodwaters receded, corn in a field near Lone Star maintains a bow of respect, testament to the rapid flow of the floodwater that raked it down.

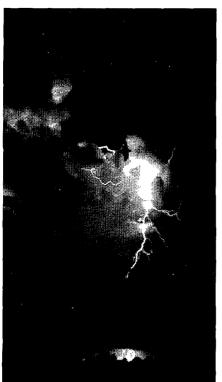


Erosion damage on Douglas County Route l near Lone Star.

---Both above photos by Mike Yoder, The Journal World, Lawrence, Kansas.

#### 8. LIGHTNING near FLORIDA CITY, FLORIDA on June 24, 1988

A thunderstorm with a 54,000 foot high anvil top produced a spectacular lightning display just west of Florida City, Florida on the evening of June 24th. The lightning danced about growing cumulus towers that were feeding into the main storm cell, and occasionally cloud-to-ground bolts discharged through clear sky, well outside of the storm cloud. A few of the strikes sparked fires in the Everglades brush as the storm moved southeast. Such vivid lightning displays are not uncommon in Florida's and the Gulf Coast's tropical summer climate, but they are far less common in other seasons, or in any season throughout the rest of the U.S.



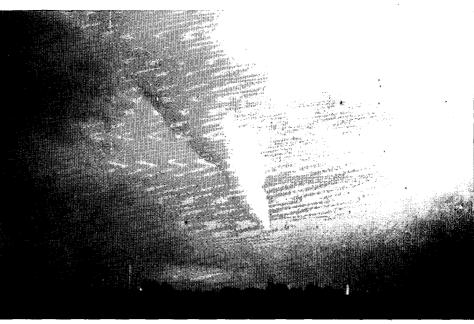


Lightning discharges viewed toward the west from Florida City, Florida at about 2100 EST on June 24, 1988. --- Both photos by Jack "Thunderhead" Corso, Harrison, New York; copyright 1988.

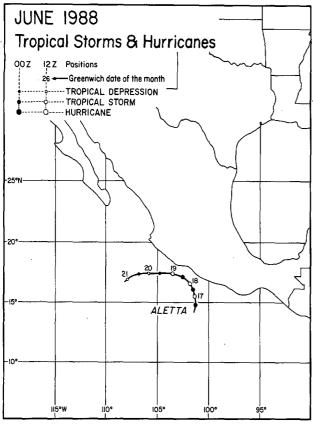
#### 9. TORNADOES at DENVER, COLORADO on June 15, 1988

On the afternoon of June 15th, five tornadoes were spawned by thunderstorms in the South Platte Valley on the lee side of the Colorado Front Range within a one hour period, 1500 to 1600 MST. The tornadoes, one F3 in intensity, one F2 and three F1, all had short paths, the longest being 2.5 miles by the F3. Even though they had very short paths, three of the four tornadoes in the Denver vicinity were long lived, lasting 16 to nearly 30 minutes. The two strongest tornadoes touched down within Denver and caused substantial damage to buildings and trees. The F3 tornado did an estimated 5 to 10 million dollars in damage in southern Denver, damaging 85 buildings, 20 severely.

The F2 tornado over northeast Denver on June 15th as seen toward the southwest from the NWSFO at Stapleton International Airport at 1520 MST. Although the visible condensation funnel was not in contact with the ground at the time, trees 18 inches in diameter and larger were being uprooted below the funnel at 17th Street and Monaco Parkway. The white object in the lower right of the photo is the Stapleton Control Tower which was abandoned for about 20 minutes as the tornado passed. -- Photo from the NWSFO at Denver, Colorado.



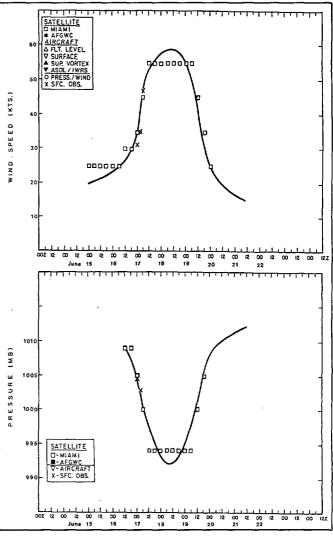
#### TROPICAL STORMS and HURRICANES



---Best track data from the National Hurricane Center, Miami, Florida.

DATE	TIME (UTC)	POSI LATITUDE	TION LONGITUDE	PRESSURE (mb)	WIND (kt)	STAGE
6/16	1800	14.3	101.4	1007	30	Tropical Depression
6/17	0000	14.8	101.3	1004	35	Tropical Storm
6/17	0600	15.2	101.3	1000	50	repredi secui
6/17	1200	15.5	101.4	997	50	
6/17	1800	15.8	101.5	995	55	
6/18	0000	16.1	101.6	993	60	
6/18	0600	16.4	101.7	992	60	, .
6/18	1200	16.7	101.9	992	60	
6/18	1800	17.0	102.2	993	60	н, н
6/19	0000	17.2	102.6	995	55	
6/19	0600	17.3	103.1	998	50	
6/19	1200	17.5	103.6	1002	40	
6/19	1800	17.5	104.2	1006	30	Tropical Depression
6/20	0000	17.5	104.8	1008	25	
6/20	0600	17.5	105.4	1009	20	н н
6/20	1200	17.5	105.9	1010	20	
6/20	1800	17.5	106.4	1011	20	
6/21	0000	17.4	106.9	1011	15	
6/21	0600	17.3	107.4	1012	15	
6/21	1200	17.0	108.0	1012	15	
						<del></del>
6/18	1200	16.7	101.9	992	60	Minimum Pressure

Table of the best track data for Tropical Storm ALETTA, including position of the storm center, estimated minimum pressure and maximum wind speed, and stage at 6-hour intervals.



Plots of estimated maximum wind speed and minimum surface pressure versus time for Tropical Storm ALETTA.

	TIME		POSI	rion	PRESSURE	WIND
DATE	(UIC)	SHIP	LATITUDE	LONGITUDE	(mb)	(dir/kt)
6/17	0000	SHIP	15.5	100.4	1006.4	130/21
6/17	0000	ZCKP	14.8	100.7	1004.6	190/31
6/17	0300	ZCKP	15.0	101.4	1002.8	220/35
6/17	0600	ZCKP	15.2	102.1	1004.6	260/47
6/17	0600	BBXX	16.4	102.2	1007.9	070/30
6/17	1200	PHBS	17.4	103.8	1007.5	310/18
6/17	1600	WSRY	16.5	100.1	1009.0	090/30
6/17	1800	3ENA5	16.7	101.3	1007.5	100/26
6/17	1800	KCSA	13.3	101.8	1011.5	240/30
6/18	1700	SHIP	16.4	101.4	1007.7	190/19
6/18	1800	KCSA	13.5	106.2		220/30
6/18	1800	7JFY	16.8	102.3	1004.0	020/30
6/18	1800	ELDW8	12.4	104.3	1011.3	280/30
6/19	0000	JERV	17.0	102.2	1000.9	

Pressure and wind reports from ships experiencing effects of Tropical Storm ALETTA.

---Both tables and graph from the National Hurricane Center, Miami, Florida.

			JUNE 1988
PLACE	TIME - LOCAL STANDARD LENGTH OF PATH (TARDS) WIDTH OF PATH (TARDS) WIDTH OF PATH (TARDS) WIDTH OF PATH (TARDS) CROPS CRO	PLACE	TIME - LOCAL STANDARD LENGTH OF PATH MIDTH OF PATH (VARDS) WINDIRED ROPERTY RILLED PROPERTY ROPERTY RO
1 ALABAMA		ALABAN	14.
Lamar County	02 1450CST 0 0 ? ? TSTM Wind Thunderstorm winds uprooted several trees and blew down power lines at Beaverton.	Marion County	21 1945CST 0 0 ? ? TSTM Wind At Shottsville straight-line thunderstorm winds destroyed one house, tore the roofs off three barns and blew trees and power lines down.
Morgan County	02 1515CST 0 0 ? ? TSTM Wind An apparent microburst from a thunderstorm occurred in southeast Decatur. Extensive damage occurred to trees. A few trees fell onto houses causing some damage. Other houses received damage to awnings and gutters.	Henry County	25 1400CST 0 0 ? ? TSTM Wind At Abbeville straight-line winds destroyed a mobile home, tore the awning from a store, and blew trees and power lines down. In downtown Abbeville a portion of the wall of a
Choctaw County	07 1500CST 0 0 ? ? TSTM Wind Trees were blown down and some roof damage occurred at Yantley.	Houston County	building toppled from the wind.  25 1400CST 0 0 ? ? TSTM Wind At Ashford thunderstorm winds blew trees and power lines down, tore several awnings from houses, and toppled signs.
Montgomery County	07 1636CST 0 0 ? ? Hail (1.75) Golf ball size hail fell in the northern part of the City of Montgomery.	7.55	At Kinsey the top was blown off a mobile home and the rear of the fire department was blown away.
Washington County	09 1430CST 0 0 ? ? TSTM Wind Trees were blown down at Frankville.	Jefferson County	In northern Jefferson County thunderstorm winds blew the roof off a mobile home. Five people inside were uninjured. In the same area there was damage to a welding company and
Clarke County	09 1501CST 0 0 ? ? Hail (0.75) Dime size hail fell at Jackson.	Montgomery County	several other homes and mobile homes were slightly damaged.  26 1300CST 0 0 ? ? TSTM Wind
Houston County	09 1517CST 0 0 ? ? Hail (0.75) 09 1535CST 0 0 ? ? Hail (0.75) 09 1555CST 0 0 ? ? Hail (0.75) Nickel and dime size hail fell at Dothan at 1517CST and at 1535CST. Trees and power lines were also blown down at Dothan at 1555CST.	Honegomery country	26 1300CST 0 0 ? ? Lightning Trees were blown down on the eastern side of the City of Montgomery. One mobile home was set on fire by lightning and was a total loss. One house was hit by lightning and had fire damage.
Washington County	09 1525CST 0 0 ? ? Hail (0.75)  Dime size hail covered the ground six miles north of  McIntosh.	Shelby County	26 1300CST 0 l 0 Lightning A male, age 19, was slightly injured by lightning while water skiing on Lay Lake.
Geneva County	09 1610CST 0 0 ? ? TSTM Wind At Samson and the City of Geneva trees and power lines were blown down. A few homes and vehicles received damage from the fallen trees.	Pike County  Houston County	26 1500CST 0 0 ? TSTM Wind At Troy a mobile home was damaged. Three outbuildings were destroyed on the same lot.  26 1500CST 0 0 ? ? TSTM Wind
Baldwin County	0 0 ? ? TSTM Wind Trees and power lines were blown down at Stapleton.	nouscon country	At Dothan numerous automobiles parked at the Dothan Airport were damaged when portions of the roof of the terminal building blew onto them. Trees and power lines were blown down in the same area.
Escambia County	09 1735CST 0 0 ? ? Hail (0.75) Nickel and dime size hail fell at Canoe.	Coffee County	26 1515CST 0 0 ? ? TSTM Wind
Baldwin County	09 1745CST 0 0 ? ? Hail (0.75) Dime size hail fell at Bay Minette.		26 1515CST 0 0 ? ? Hail (1.00) Numerous large tree limbs were blown down in northeast Coffee County. Also in the same area quarter size hail dented several automobiles.
Mobile County	09 1835CST 0 0 ? ? TSTM Wind Straight-line thunderstorm winds destroyed a mobile home at Chickesaw. The mobile home was not tied down and was parked by a large building with long straight sides. It is likely that the winds were funnelled along the large building. Two persons inside the mobile home were slightly injured.	Dale County	26 1515CST 0 0 ? ? TSTM Wind 26 1521CST 0 0 ? ? TSTM Wind (G58) Trees and power lines were blown down in the northern part of Dale County at 1515CST. Thunderstorm winds that gusted to 67 mph at Ft. Rucker at 1521CST seriously damaged a UH-60 Blackhawk helicopter. Trees and power lines also were downed
Baldwin County	09 1940CST 0 0 ? ? TSTM Wind 09 1940CST 0 0 ? ? TSTM Wind Trees and power lines were blown down one half mile west of Loxley. A building was also blown away. Also around the same cime, the roof was blown off an auto parts stote at Bay Minette.	Covington County	in that area.  26 1555CST 0 0 ? ? TSTM Wind 26 1605CST 0 0 ? TSTM Wind At Andalusia thunderstorm winds destroyed two mobile homes and damaged the roofs of several houses. The roof of a
Mobile County	09 1945CST 0 l 0 0 Lightning In Mobile, a female (age unknown) was slightly injured when she was struck by lightning while talking on the telephone.		nearby building supply store was blown off while trees and power lines were blown down in the same general area around 1605CST.
Fayette County	18 1520CST 0 0 ? ? TSTM Wind Trees and power lines were blown down at Fayette.  18 1630CST 1 1 0 0 Lightning	Coffee County	26   1620CST   0 0 0 ? ? Lightning   26   1620CST   0 0 ? ? Hail (0.75)   26   1620CST   0 0 0 ? TSTM Wind   A house was hit and damaged by lightning between New Brockton
DeKalb County	One 19 year old male was killed by lightning as he was watering horses in a horse barn. He was standing in water with a hose in his hands when lightning entered his body through the hose. Another male (age unknown) who was also in the barn was slightly injured. Lightning M190	Jefferson County	and Enterprise. Dime size hall fell near Enterprise. Trees and power lines were blown down in the same area.  26 1740CST 0 0 ? TSTM Wind Thunderstorm winds blew trees and power lines down at
Franklin County	20 1400CST 1 0 0 0 Lightning A 43 year old male was killed by lightning at Red Bay. He was purting a ball on a trailer hirch of a mobile home. The ground was wet and he was using a wrench in his hand. Lightning M430		numerous locations in the east and northeast part of the City of Birmingham. Some trees fell across automobiles and buildings. The winds also blew in a hangar door at the Birmingham Airport causing the door to collapse and fall onto a Cessna 180 parked inside.
Chilton County	20 1830CST 0 0 ? TSTM Wind At the Union Springs Community four miles west of Jemison straight-line winds moved through a path about one-fourth mile long and 200 yards wide. Three houses were moderately damaged, one barn was totally destroyed, and the top of a pump house was blown off. Estimates were placed at three thousand dollars.	Shelby County	26 1900CST 0 0 ? ? TSTM Wind 26 1900CST 0 0 7 ? TSTM Wind 26 1921CST 0 0 ? ? TSTM Wind Trees and power lines were blown down at Alabaster at 1845CST. A tree was blown across a house in central Shelby County at 1900CST. Trees and power lines were blown across State Highway 119 near Siluria at 1921CST.
Cherokee County	20 1925CST 0 0 ? ? TSTM Wind Straight-line thunderstorm winds knocked over and damaged three mobile homes at Cedar Bluff on the north side of	Chilton County	26 1900CST 0 0 ? 7 TSTM Wind Trees and power lines were blown down at numerous locations throughout Chilton County.
Jefferson County	Weiss Reservoir.  21 1735CST 0 0 ? ? TSTM Wind Five trees were blown down, one onto the corner of a house,	Houston County	27 1550CST 0 0 ? ? Hail (0.75) Nickel to dime size hail fell at Ashford. Crops were stripped in the area.
	causing minor damage. Minor damage was also done to one mobile home. The damage occurred in the Gardendale vicinity.	Henry County	27 1745CST 0 0 ? ? ISTM Wind Trees were uprooted and power lines were blown down at Shorterville.

Houston County  Houston County  A RIZONA  Apache County, 10 SW St. Johns  Maricopa County: 25 N Phoenix  Clendale  West Phoenix  Sever  27 1  Rehob in th blown  27 1  Stron South at 60 cause event Clendale  29 1  Shing West Phoenix  29 1  Power left  Maricopa County: Phoenix  30 1	t reported two funnel clouds moving southwest.	tring ing lephone.  Wind Wind wind on the owned s were	Cleveland Co.	O2 1505CST 0 0 ? ? Hail (1.75)  Golfball-size hail was reported by the State Police in Rover.  O2 1539CST 0 0 ? ? Thunderstorm Win  High winds downed trees just north of Rison on Highway 35. Report from Sheriff's Office.  O2 1544CST 0 0 ? ? Hail (0.75)  Dime-size hail was reported just north of Rison.  Report from Sheriff's Office.  O2 1647CST 0 0 ? ? Hail (1.50)  Hail up to 1-1/2 inches in dismeter fell at  Tontitown.  O2 1730CST 0 0 ? ? Thunderstorm Win
Houston County  Houston County  Apache County  Apache County  Naricopa County: 25 N Phoenix  Clendsle  West Phoenix  Sever  27 1 130 1 30 1 30 1 31 1 11 1 11 1 11 1 1	ral trees were blown down three miles south of Ash  1805CST 0 1 0 0 Light  othan, a woman (age unknown) was struck by lightni was slightly injured as she was talking on the tel  1123CST 0 0 ? ? TSTM  1130CST 0 0 ? TSTM  1130CST 0 0 ? TSTM  1130CST bigh winds turned over a small pump house i beth area south of Dothan. A large oak tree was  ob he same vicinity. At 1130CST trees and power lines in down a few miles north of Dothan.	tring ing lephone.  Wind Wind in the owned s were	Cleveland Co.  Cleveland Co.  Washington Co.	Colfball-size hail was reported by the State Police in Rover.  02 1539CST 0 0 ? ? Thunderstorm Win High winds downed trees just north of Rison on Highway 35. Report from Sheriff's Office.  02 1544CST 0 0 ? ? Hail (0.75)  Dime-size hail was reported just north of Rison. Report from Sheriff's Office.  02 1647CST 0 0 ? ? Hail (1.50)  Hail up to 1-1/2 inches in diameter fell at Tontitown.
Houston County 27 I In Do and w Houston County 30 1 At 11 At	1805CST 0 1 0 0 Light othan, a woman (age unknown) was struck by lightni was slightly injured as she was talking on the tel- 1123CST 0 0 ? ? TSTN ' 1130CST 0 0 ? ? TSTN ' 1130CST 123CST high winds turned over a small pump house is been at a reasouth of Dothan. A large oak tree was do he same vicinity. At 1130CST trees and power lines in down a few miles north of Dothan.	tning ing lephone.  Wind Wind in the owned s were	Cleveland Co.	Police in Rover.  02 1539CST 0 0 ? ? Thunderstorm Win  High winds downed trees just north of Rison on  Highway 35. Report from Sheriff's Office.  02 1544CST 0 0 ? ? Hail (0.75)  Dime-size hail was reported just north of Rison.  Report from Sheriff's Office.  02 1647CST 0 0 ? ? Hail (1.50)  Hail up to 1-1/2 inches in diameter fell at  Tontitown.
2 ARIZONA  2 ARIZONA  Apache County. 10 SW St. Johns  Maricopa County: 25 N Phoenix  29 1  Strom South at 60 cause event Glendale  29 1  Shing West Phoenix  29 1  Power left Maricopa County: Phoenix  30 1	1130CST 0 0 ? ? TSTN 123CST high winds turned over a small pump house is beth area south of Dothan. A large oak tree was do he same vicinity. At 1130CST trees and power lines n down a few miles north of Dothan.	Wind in the owned s were	Cleveland Co.	Highway 35. Report from Sheriff's Office.  02 1544CST 0 0 ? ? Hail (0.75)  Dime-size hail was reported just north of Rison.  Report from Sheriff's Office.  02 1647CST 0 0 ? ? Hail (1.50)  Hail up to 1-1/2 inches in diameter fell at  Tontitown.
Apache County, 10 SW St. Johns 27 1 Pilot Maricopa County: 25 N Phoenix 29 1 Stron south at 60 cause event Glendale 29 1 Shing West Phoenix 29 1 Power left Maricopa County: Phoenix 30 1	t reported two funnel clouds moving southwest.		Washington Co.	02 1647CST 0 0 ? ? Hail (1.50) Hail up to 1-1/2 inches in diameter fell at Tontitown.
Apache County, 10 SW St. Johns 27 1 Pilot Maricopa County: 25 N Phoenix 29 1 Stron south at 60 cause event Glendale 29 1 Shing West Phoenix 29 1 Power left Maricopa County: Phoenix 30 1	t reported two funnel clouds moving southwest.		Crawford Co.	02 1730CST 0 0 2 2 Th
Naricopa County: 25 N Phoenix  29 1  Stron South at 60 cause event  Glendale  West Phoenix  29 1  Shing West Phoenix  29 1  Power left  Maricopa County: Phoenix  30 1	t reported two funnel clouds moving southwest.	el Clouds		v v : : inunderstorm Win
Maricopa County: 25 N Phoenix  29 1  Stron south at 60 cause event  Glendale  29 1  Shing West Phoenix  29 1  Power left  Maricopa County: Phoenix  30 1			i i	High winds from a severe thunderstorm downed trees five miles NNE of Van Buren on Highway 64. Report from the Sheriff's Office.
25 N Phoenix 29 1 Stron South at 60 cause event Glendsle 29 1 Shing West Phoenix 29 1 Power left Maricopa County: Phoenix 30 1	1828 MST 0 0 3 0 Thunder	. [		02 1815CST 0 0 ? ? Thunderstorm Win
South at 60 cause event  Glendsle 29 l Shing West Phoenix 29 l Power left Maricopa County: Phoenix 30 l		erstorm Winds		A severe thunderstorm downed trees and power lines at trong.
Glendale 29 1 Shing West Phoenix 29 1 Power left Maricopa County: Phoenix 30 1	ng thunderstorms formed over the Central Basins am n into the deserts. A SKYWARN spotter estimated w 0 mph with blowing dust and 1/10 mile visibility. ed large brush fire near Bartlett Dam, northeast o tually burning about 8,000 acres.	wind gusts Lightning		02 1840CST 0 0 ? ? Thunderstorm Wir High winds downed several trees just east of Booneville. One tree landed on a house.
West Phoenix 29 1 Power left Maricopa County: Phoenix 30 1	, -	erstorm Winds		08 2012CST
Power left Maricopa County: Phoenix 30 1	gles blown off at least one home.		,	Dime-size hail fell in and around Bella Vista.  08 2027CST 0 0 3 ? Thunderstorm Win
Phoenix 30 1	1930 MST 0 0 ? 0 Thunder lines downed by high winds. About 10,000 custom without power.	erstorm Winds		High winds from a severe thunderstorm overturned and damaged an airplane at Rogers Airport. The highest wind gust recorded was 58 mph. The winds also downed tree limbs and power lines in Rogers.
na	1859 MST 0 0 4 0 Thunde	erstorm Winds	Clay Co.	08 2030CST
1 .	r lines downed at 13th Ave and Clarendon.  1900 MST 0 0 ? 0 Thunde	erstorm Winds		The County Sheriff reported wind gusts to 60 mph at Corning.
	s to 63 mph at KTSP-TV 10.	1 1	Sharp Co.	08 2030CST
	1945 MST 0 0 3 0 Thunde ral trees blown down and uprooted in north Phoenix	erstorm Winds		State warning point reported golfball-size hail and gusty winds at Ash Flat. The winds downed a few trees in Ash Flat.
		.	Washington Co.	08 2048CST 0 0 ? 7 Hail (0.75)
		[ [	,	Dime-size hail fell two miles east of Springdale.
			Lawrence Co.	08
3 ARKANSAS			Benton Co.	08 2104CST
	1355CST 0 0 4 0 Lights	tning		Dime-size hail fell in east Siloam Springs.
Highw off a	thing struck a tree and roof of a house on way 300 near Roland. The lightning touched a fire which caused an estimated \$8,000 ge to the house.	. ]	Searcy Co.	08 2105CST 0 0 4 0 Thunderstorm Wit High winds downed a large tree onto a car in Leslie. The car was totaled by the damage.
l		(1.75)	Madison Co.	08 2105CST 0 0 ? ? Thunderstorm Wir
fell cover	ranging in size from marble to golfball ten miles south of Benton. The hail red the ground. Report from a retired Force weather observer.		Washington Co.	High winds downed trees on a farm at Japton.  08 2120CST 0 0 ? ? Hail (0.75)
Pulaski Co. 02	1405CST 0 0 4 0 Thunde	lerstorm Wind		Dime-size hail was reported 15 miles west of Fayetteville.
of th rippe	vere thunderstorm moved through western parts he county, and its associated high winds ed apart a dock at a marina on Lake Maumelle. damage was estimated at \$15,000.		. Conway Co.	08 2140CST 0 0 3 ? Thunderstorm Wir High winds downed trees and damaged chicken
1	1410CST 0 0 3 0 Lights	tning	Johnson Co.	houses at Jerusalem.  08 2205CST 0 0 ? ? Thunderstorm Wir
	ghtning bolt started a small fire at a house rystal Valley. The fire caused \$1,500 in ge.			High winds downed trees and power lines in Clarksville.
Grant Co. 02	1448CST 0 0 ? ? Thunde	derstorm Wind	Pope Co.	08 2205CST 0 0 4 ? Thunderstorm Wir High thunderstorm winds blew down one chicken house and tore off the roof of another at

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PLACE	DATE	TIME - LOCAL STANDARD		LENGTH OF R	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF F	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
ARKA	NSAS	;									ARKANS	SAS								
Pope Co.	108	2210CST				0	0	7	?	Thunderstorm Wind	Desha Co.	29	1800CST			0	0	5	?	Thunderstorm Win
		h winds de					Crow	Mount	ain,				winds f							
Conway Co. Conway Co.	08 08	2210CST 2215CST	1011	01 1	LEATUS	0.0	0	?	?	Thunderstorm Wind Thunderstorm Wind	·	near squa	McGehee ire foot : royed.	, In a	ddition	ı, a f	ive	thousan	đ	
		h winds d	owne	ed tree	s at	Black	well	and at	:		Benton Co.	29	2215CST			0	0	4	7	Thunderstorm Wi
Franklin Co.	1	2214CST e-size ha:	11 f	fell at	Ozar	0 k.	0	7	7	Hail (0.75)	·	Spr	nany as 50 ings as a ough. A n	severe number	thunde of Wind	rator lows 1	na pai	ssed		
Yell Co.	08	2240CST				0	0	4	?	Thunderstorm Wind	Carroll Co.	1	2000CST	_	Ignway	0	0	5	0	Lightning
	cau Sev and ala the	ere thundering quite eral roof: numerous of downed county.	e a s an tre fenc Lar	bit of nd stor ees wer ces and rge hai	dama age s e dow dama 1 acc	ge co heds ned. ged f ompan	untyw Were ( High ruit ( ied t)	ide. damage Winds trees he sto	ed, in orm	Le.	,	ligi	hoolhouse ntning. ' nated at	The ens	uing fi					
Crawford Co. Crawford Co.	08 08 08	2301CST 2305CST 2317CST				0 0 0	0 0	? ? ?	?	Hail (1.00) Hail (2.00) Hail (1.00)						ı				
	Lar Rud	ge hail fo y; all in	ell Cra	at Mou	ntain	burg,	Alma	and	near		4 CALIFORNIA	, No	rthern							
Sebastian Co.	08	2337CST	,		oount,	0	0	?	?	Hail (2.50)	Santa Cruz Co. Santa Cruz Beach	20	1630PST			0	2	0	0	LIGHTNING
	Ten	is ball a	ize	hail.	fell (	on Hi	ghway	96 ne	ar		Sainta Ciuz Beach									girls who were y paralysis.
Garland Co.	)	2345CST				0	0	4	?	Thunderstorm Wind	Ì	'								
	blev High blov High	evere thus we a mobile nway 270 a wn out of nway 7, ag t power du	t H car sain	me off lot Spr s, and in Ho	its ings. trees t Spri	found Some were ings.	tion wind down	on U. lows w led al	S. ere ong		4 CALIFORNIA	, So	uthern		NONE RE	EPORTE	ED			
Poinsett Co.	High	2345CST winds do ed Tree.	Wne	d tree:	s on M		0 ary Ro			Thunderstorm Wind										
Pike Co.	1	0325CST				0	0	?	?	Hail (1.00)	5 COLORADO	٠								
	Larg	e hail fe	11 1	two mil	Les so	outh o	of Ant	oine.			Chaffee Cy.	1 4	1915MS	er.		0	0	3	0	Heavy Rain
levada Co.		0340CST el-size h	ail	fell i	ive π	0 iles	0 north	? West (		Hail (0.88)	,	Cha	vy rain iffee co sta. U.	caus	and t	e se here	cond wer	ary ro	ads t	to wash out in tages in Buena water at one
dempstead Co.	09	0355CST el-size h	<b>41</b>	VOC TO			0 Dom 1 a	?	?	Hail (0.88)	Adams and Weld Counties	5 A t	1405MS cornado	touche	ed dow	n 5 i	mile	s east	of I	Tornado (F2) afayette, nea ine, and move
Nevada Co.	09	0555CS1	:			0	0	?	?	Hail (1.00)		tra The	theast. iler, a ropeli	nd dar ke fur	nit a maging mel a	campa six lso l	grou: oth	nd, de ers, a down	molis long fence	with four car es, signs, and campground was
Desha Co.	)	ge hail f 1415CST		. at 10	ung.	0	0	?	7	Thunderstorm Wind		l est	imated	at \$50 150 fe	,000.	The	e tw	ister	moved	a 1500 pound cound until
	wh:	isolated ich downed Dumas.								ds	Boulder Cy.	5	1425MST	r 0.5.				. 5		Tornado (F2)
Poinsett Co.	21	1725CST	:			0	2	4	?	Thunderstorm Wind		Laf hit	a subd	.stayi ivisio	ng on m, un:	the roof:	grou ing i	und ab one ab	out 2 andon	0 minutes. I ed house, and
	ofi and rai	th winds of a small is iding of the secompa damage of the secompa	bus f f nie	iness, our ho d this	and ones. isola	damage Only sted a	ed the a sma storm	shin 11 am as it	gles ount o	f		gar cha des dar	age and in link troyed, aged.	nor da three fence while A grai	mage barn: a, a sa be the l	to a s wer atell house rage	dozi re di lite 's c tanl	en oth estroy dish, deck a k was	ers. ed. and nd ga noved	A four car At one house, a shed were rage were 200 feet by da being blow
Perry Co.	- 1	1220CS1				0	0	4	?	Thunderstorm Wind	,	thr	ough wa	lls; c	ne car	ne in	nto a	a kitc	hen.	
	and	thunder two chic ction on	ken	house	s just	maged t sout	a you th of	th ce Fourc	nter he	;	Mesa Cy.	A t	1430MS hunders fton.	r torm t	icrob	0 urst	des	3 croyed	la ho	Tstm. winds orse barn in
Pulaski Co.	- 1	1413CST		•		O	0.	?	7	Thunderstorm Wind	Larimer Cy.	5 1-i	1455MS nch hai		1 5 mi		() sout	0 heast		Hail (1.0) oveland.
Prairie Co.		ds gusted tle Rock. 1600CSI	1						nt.	Thunderscorm Wind	Eagle Cy.	A :	evenin il year miles n	old ma	n was	str	0 uck In	and ki Eagle,	lled ligh	Lightning by lightning atning caused
<del></del>	1.	Biscoe, h		winds	downe							mar	or dama \$8000.	ge to	a hoù	se a	nd k	1lled	two l	norses, value
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PLACE	TIME - LOCAL STANDARD LENGTH OF PATH (MLES) WILLES) WILLES WANDARD CROPS INJURED CROPS CRO	PLACE	TIME - LOCAL STANDARD  LENGTH OF PATH (TARDS) WIDTH OF PATH (TARDS) RILLED RODE RITY CROPS ROPE RITY CROPS ROPE RITY CROPS ROPE ROPE ROPE ROPE ROPE ROPE ROPE ROPE
COLORA	DO	COLORAI	00
Larimer Cy.	7 1830 MST 0 0 4 0 Tstm. winds A microburst unroofed a shed east of Loveland, and downed a power pole, severing some nearby lines.	Larimer Cy.	13 1400MST 0 1 2 0 Lightning A man helping to build a house was slightly injured by debris thrown by a lightning strike. The house was slightly damaged.
Adams Cy.	8 1705MST 1.5 30 0 0 0 Tornado (FI) A tornado touched down 15 miles northwest of Bennett, about 20 miles northeast of Denvers Stapleton Airport, and stayed on the ground for 15 minutes. It was observed by National Weather Service personnel from the airport.	Morgan County: Ft. Morgan Ft. Morgan	13 1425MST 0 0 0 0 Tstm wind (G52)  13 1430MST 0 0 4 3 Hail (1.75)  A thunderstorm produced golfball size hail at Fort Morgan, along with a strong microburst. About 100 windows were broken in the city, and cars were pitted.
Adams Cy.	8 1724MST 0.5 30 0 0 0 Tornado (F1) Another tornado touched down close to the location of the previous one; this twister was about 10 miles northeast of Montbello, a neighborhood in extreme northeast Denver.	Cheyenne Cy. 5S Cheyenne Wells Cheyenne Cy.	There was minor crop damage in the area.  13 1547MST 0 0 0 0 Hail (1.0):  13 1550MST 0 0 0 0 Hail (1.0)
Jefferson Cy.	9 1330MST 0 0 0 0 Hail (1.75) Golfball size hail fell in Conifer, along with 1.3 inches of rain.	Kit Carson Logan Cy.	13 1600MST 1.5 50 0 0 5 0 Tornado (F2)
Boulder Cy.	9 1343MST 0 0 3 0 Hail (0.75) 3/4 inch hail fell in Longmont, causing minor damage to cars. 3 miles north of Louisville, 1.10 inches of rain fell in just 20 minutes.		A tornado touched down 4 miles north of Proctor, about 20 miles northeast of Sterling. It destroyed several buildings on a farm and partially unroofed a home. The roof section was carried a mile, then deposited more or less intact on the ground.
Larimer Cy.	9 1407MST 0 0 0 0 Hail (0.75) 3/4 inch hail fell at several spots in the Fort Collins area from 1407 to 1413 MST.	Lincoln Cy.	13 evening 0 1 0 0 Tstm. winds Strong winds blew over a moving truck 14 miles east of Hugo, injuring the driver.
Jefferson Cy.	9 1430MST 0 0 0 0 Hail (1.5) Ping pong ball size hail fell in Arvada from 1430 to 1432 MST.	Boulder Cy.	14 1930MST 0 0 3 0 Lightning Lightning tore a small hole in the roof of a home in the southern part of Boulder. There were some power outages in the area.
Larimer Cy.	9 1433%ST 0 0 0 0 Hail (0.75) 3/4 inch hail fell 4% miles southwest of Fort Collins.	Arapahoe Cy.	15 1415MST 0 0 0 0 Hail (1.38) 1 3/8 inch hail fell in extreme southeast Aurora.
Pueblo Cy.	9 1608MST 0 0 0 0 Hail (0.75) 3/4 inch hail fell in Colorado City.	Adams Cy.	15 1503MST 2.0 100 0 0 3 0 Tornado (F1) A tornado touched down just northeast of the Rocky Mountain Arsenal, about 10 miles northeast of Denvers
Denver Cy.	10 1450MST 0 0 3 0 Tstm, wind (652) A 60 mph microburst was clocked at Stapleton Airport. At a nearby home, a porch was unroofed and a fence was blown down.		Stapleton Airport. The twister moved very slowly and did no damage except to demolish a small electrical substation, but it was long lived, not dissipating until 1530 MST.
Arapahoe Cy.	10 1517MST 0.2 20 0 0 0 0 Tornado (FO) A tornado touched down in southeast Aurora. It was on the ground until 1520 MST.	Denver Cy.	15 1516MST 0.5 400 0 0 6 0 Tornado (F2) A tornado cut a swath through northeast Denver. The main path went through a thickly wooded area for about six blocks and uprooted about 500 city-owned trees,
Arapahoe Cy.	10 1535MST 0.1 20 0 0 0 Tornado (F0) A small tornado touched down briefly in northeast Autora.		many of them large elms 75 to 100 years old. Hundreds of privately-owned trees were also sucked out of the ground by the slow-moving twister, which was filmed by a news team in a helicopter as it uprooted trees. The
Gunnison Cy.	10 1645MST 0 0 0 Tstm wind (G50) A microburst gusted to 58 mph at Gunnison.		replacement cost of the city-owned trees was estimated at 1.5 million dollars. Not too much damage to buildings occurred. Some homes
Pueblo Cy.	A microburst produced a gust of 60 mph at the Pueblo airport.		suffered roof and chimney damage, a gas main was ruptured, and some cars were damaged by falling trees. The uprooted trees also caused curb and sidewalk damage and cut some electric wires.
Denver Cy.	11 evening 0 1 0 0 Lightning A 30 year old man was seriously injured by lightning while mowing his lawn in Denver.	·	After lifting just off the ground, the funnel passed very close to Stapleton Airport, causing the tower to be evacuated for 20 minutes. The ropelike tornado moved from southwest to northeast, staying on the
Larimer Cy.	12 1310MST 0 0 0 0 Hail (0.75) 3/4 inch hail fell in the Red Feather Lakes area, at about 9000 feet elevation.	Denver Cy.	ground until about 1540 MST.  15 1524MST 2.5 200 0 7 7 0 Tornado (F3)
Summit Cy.	12 1702MST 0 0 0 0 Hail (1.0) Quarter size hail fell at the eastern end of the Eisenhower Tunnel on Interstate 70 east of Dillon, at an elevation of 11,000 feet!	Deliver dy.	A strong tornado cut an erratic path through the southern part of Denver, moving northeast, then south- east, then almost due north, causing extensive damage in at least three areas. The twister damaged about 85
Douglas Cy.	13 1218MST 0 0 0 0 Hail (2.0) 2 inch hail fell in Parker.		buildings, 20 severely; the total loss was estimated at 5 to 10 million dollars. Many cars were severely damaged; at least 15 vehicles were overturned and totaled. One trailer was lifted onto the top of a
Pueblo Cy.	13 1305MST 0 0 0 0 Tstm wind (C51) A thunderstorm microburst produced a gust of 59 mph in Pueblo.		building that had just been unroofed; numenous antique cars inside the building were damaged. A Ford Bronco was blown over a church, and landed 100 yards away.
Jefferson Cy.	13 1319MST 0 0 0 0 Hail (1.0) Soft hail 1 inch in diameter fell at the mouth of Turkey Creek Canyon, 5 miles southwest of Morrison.		A metal storage shed was deposited far above the ground in some power lines. The tornado uprooted hundreds of trees, many of them on a golf course as it roared right down the 18th fairway. As it crossed the South Platte River, it deposited a 30
Adams County: Bennett	13 1320MST 0 0 0 . 0 Hail (1.75)		foot evergreen in midstream. Miraculously, considering the strength of the storm, nobody was seriously hurt; seven people suffered minor
1N Strasburg	13 1329MST 0 0 0 0 Hail (1.75)		injuries from flying debris. A golfer was thrown 40 feet, but was not hurt; a man clinging to a telephone
5N Strasburg	13 1340MST 0 0 0 0 Hail (1.13) Hail from 1 1/8 inch to golfball size fell around Bennett and Strasburg.		pole was unscathed, but lost both shoes, a sock, and buttons off his shirt. A woman holding a baby was sucked through a broken window of a convenience store; both were unnurt. A dog was suspended in the air by
Adams Cy.	13 1322MST 0.2 30 0 0 0 Tornado (F1) A tornado touched down briefly at Strasburg.	,	the twister, tethered to the ground by its leash. As with the twister in northeast Denver, the uprooted trees crushed cars and damaged curbs and sidewalks.

<u> </u>						_			<u> </u>						_				JUNE	1988
		CAL	PATH	F		OF SONS	ESTIM. DAM	ATED†				CAL	PATH	Ę		OF SONS	ESTIM/ DAM			
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTE OF STORM	R
COLORA	DO									COLORAI	DO									
Adams Cy.	and to:	the stomado sta 1530MST tornado v	orm n ayed 1.0 was s	ear the on the 100 ighted	e ars grou	enal. ind un	Th til 0	e sou about 0	two in the city th Denver 1540 MST. Tornado (F1) about 2 miles	Weld Cy. COZ011	Li ex fe	tensive 11 in th	start damag	e to ta, and	he ho high	me. wat	Over er fo	two rced	Heavy rain Lightning causing inches of rathe closure r several he	ain of
Larimer Cy.	15 A 1	th of Ba 1538MST cornado to coofed a	1.0	50 ed down	0 n. 5 π e.	0 miles	3 NNE	0 of Fo	Tornado (F1) rt Collins, and	Boulder Cy. COZ011	Li Sp		struc A 25	year o	rock 1d ma	n wa	bers s kil	near : led, :	Lightning Eldorado and a 21 ye:	ar
Kit Carson Cy. Burlington and Stratton		1600MST		-1. 4.	0	0	0	0	Hail (1.0)	Weld Cy. COZ012	St	eve. rong wir mage to			by th		rstor	ms car ld co		ive
Bent Cy.	15	1 Stratto 1645MST	on.		0	0	3	0	th Burlington Hail (0.75), Tstm. winds, Heavy rain east of Las	Denver Cy, COZ011	The over mo	er two e st of it is were	orm mi elm tr :. A damag	ees. nearby ed. A	One f buil truc	ear ell ding k th	on a was at ha	own D house unroo d bee:	Tstm. winds enver knocke , destroying fed, and twe n severely was hit aga	eđ g o
	and the	imas. Ha 1 was st: 2 16th.	ail i ill c 3½ i ding,	n the overing niches and the second s	area g the of ra	piled grou in fe	l up md o 11 i	sever n the n the	al inches deep afternoon of area, causing lew part of a	Adams Cy. COZ011	A st	ayed on	touch	ed dow	n two until	mil 125	es no 2 MST	rth o	Tornado (F f Watkins.	
Washington Cy.	15 Go1	1806MST Lfball to	bas	eball				at M	Hail (2.75) essex, on the	Yuma Cy. COZ013 Gunnison Cy.	Se sa	eve. veral pl tellite	dish			11g	3 htnin 4	g in :	Lightning Eckley. A Flash floo	d
Logan Cy.	Was	hington 1820MST	coun	ty.	0	0	4	5	est corner of  Hail (1.75) thunderstorm	COZO05	Oh af	lo Creel	t, nor ny rai	n upst	Gunni ream.	son,		flowe	d its banks adgates, an	
	tha Mer cro	at bombed ino. Ni op damage	d Mes umero	sex dr	opped dows	d golf were outhwe	ball brok ster	size en, a n Log	hail in nd extensive an county.			٠								
Elbert Cy.	A 2	aftn. 4 year	old m	an was	kill	0 .ed by	0 lig		Lightning g near Elbert.											
Denver Cy.	Lig	1330MST htning a 0,000 dar	struc	k a ho	0 me in	0 Denv	er,		Lightning ng about	6 CONNECTICU										
Arapahoe Cy.	21 Lig	1415MST thining o	damag	Greenw	0 ee ho ood V	0 mes i 7111ag	4 n Li e th	ttlet	Lightning on, and also d been struck	CTZ001-004	pow	er to up	gusty to 10,	000 cus	tomers	in t	he Dani	bury a	Gusty Winds  H knocked out es. In ocks were dams	:
Larimer Cy.	22 Two	1130MSI boys, a	aged ky M	15 and ountain	n Nat	were	0 hit Par	by li	Lightning ghtning at Lawn oth were	New Haven County	by 26 A t	the high 0130EST eenage co	waves : ouple w	whipped alking	up by l ln af:	the l ield	winds. O were si	l truck t	Lightning by lightning. by M170	
Adams Cy.	A t	1530M tornado t ayed on 1	was s	potted	one	mile	0 east MST	of B	Tornado (Fl) righton; it	New London County	26 At	0000EST 0900EST least eig		ses wer	0 stru	l ck by	lighti		Lightning	nged
Douglas Cy.		1730M ghtning (		ed a h	ome n		3 astl		Lightning k.		mor cus	ning hout tomers.	s. Po Awoma	wer was n was 1	knock	ed ou	t to se	everal	the early thousand elec Le using a	etric
Saguache Cy.	Go	rth of S						a, ab	Hail (1.75) Heavy rain out 10 miles t a road in the	New London County, Waterford	26	ephone ir 0912ES7 fball siz		•	0 eporte	0 d.	0	0	Hail (1.75)	
El Paso Cy.	ju	66 year o	old m west	of Col	orado	2 lously Spri	0 inj ngs;	ured	Lightning by lightning her person											
Jefferson and Larimer Counties	Eve tra	ghtning ( ergreen, ensmitte	in J	effers	he ch on co ea, a	ounty ind an	A othe	a hou bolt r bol	Lightning se near demolished a t knocked a n Larimer	7 DELAWARE  New Castle and Kent Counties; Summit Airport to	7	1510ES	ST 25	100	0	30	6	6	Tornado (F	1)
Adams Cy.	A 1	1235M tornado ( aying on	touch	ed down	n one	mile		th of	Tornado (F1) Watkins,	Woodland Beach New Castle County, Odessa Kent County:	7	1515ES			0	0	?	?	Hail (1.00	ł
Adams Cy.	A t	1255M cornado v syed on t	was s	potted	just	Bout	heas	t of	Tornado (Fl) Barr Lake, and	Smyrna Dover AFB	,	1535ES 1549ES			0	0	?	?	Thundersto Wind (58 Hail (1.75 Thundersto Wind (57	kt) 5) orm
Larimer Cy.	A t	aying on	the	ed dow	n fiv	re mil	es e	ast o	Tornado (F1) f Loveland,			northe tornad hittin	rn De o. Th g Sum	thunde laware, e torna mit Air	the do w	n de ns in , the	velope ntermi en Mid	ed a ittent idleto	wn,	,
Larimer Cy.	A	1420M icroburs ising abo	st un:			rage			Tstm. wind Loveland,		-	and B1 County Kent C	ackbi , and ounty	od Stai Smyrna It they, whe	e For a and nen m	rest Woo oved	in Ne dland out i	w Cas Beach .nto t	tle in he	

											JUNE 1988
PLACE	TIMB - LOCAL  CENCTH OF PATH WIDTH OF PATH WINTED AND STANDARD WINTED AND STANDARD WINTED AND STANDARD WINTED AND STANDARD CROPS CRO	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	PERS		PROPERTY DAW		CHARACTER OF STORM
	<del></del>	1	السل	ΗŅ	2	¥	2	<u>z</u>	*	-	
DELAWA		FLORIDA						_			
	and 50 foot trees were uprooted. Numerous trees downed in Odessa between 1615-1625EDT. In Smyrna, a house was destroyed and over 120 other homes damaged in the Greenmeadows development. Three single engine planes	Lee Co., Cape Coral	High	wind de				0 Lsc:	3 reen		TSTM wind (55)
	were overturned at Smyrna Airport. Many trees reported down just west of Dover APB. The greatest amount of damage was reported in Smyrna and Woodland Beach.	Broward County	A sho just weste	1600EST rt-lived south of rn Browas oved nori	tornad Inters rd Coun	o touch tate 75 ty. It	ed dow , Alli laste	gatoi	r Alle	vergla y, in	
Statewide	22-23 0 ? ? Reat Spell Temperatures averaged well up into the 90s, reaching 98 at Wilmington on the 22, which broke the record for that date.	Polk Co., Kathleen	A to	1700EST rnado de le home	estroy					and s	
		Citrus Co.,		1500EST		40	0	0	4		Tornado (F2)
		Inverness	A to	rnado d	amaged	12 m	bile	hom	es an	d des	troyed a barn.
8 FLORIDA		Hernando Co., Brooksville	1	1500EST wind d		15 mc	0 bile	0 hom	4 es.	0	TSTM wind (55)
	1	Manatee Co., Bradenton	25	1700EST			0	0	4 .	0	TSTM wind (55)
Dixie Co., Cross City	05 1500EST 0 0 3 0 Hail (2.0) 05 1510EST 0 0 1 0 TSTM wind (55) Hail 2 inches in diameter was reported. High wind	·	was		ff, se	everal					porch roof d and power
Pasco Co., Zephyrhills	downed several trees. 05 1930EST 0.5 30 0 2 3 0 Tornado (F0)	Orange Co., southwest part	A te	1500EST n year ng a bi	old bo					htnir	Lightning
	A small tornado was observed to damage a mobile home. Two men in the home suffered minor injuries.	Polk Co.,	1	1645EST	_		0			0	TSTM wind (55)
Marion Co., Ocala	05 2200EST 0 0 4 0 TSTM wind (60) High wind damaged the roof of a house.	Winter Haven		wind d		yed a p	patio	enc	losur		Several trees
Seminole Co., Sanford	06 1320EST 0 0 2 0 TSTM wind (55) High wind downed several large trees, a wood fence,	Leon Co., Woodville	Hail	1830EST one in cer.		diame	0 ter w	0 as r	0 eport		Hail (1.0) , a sheriff's
Pasco Co.,	and a concrete block wall.  06 1416EST 0 0 4 0 TSTM wind (60)	Polk Co., Lake Wales	28	1400EST	•		1	0	0	0	Lightning
Dade City	High wind blew a large tree onto a house. Several other trees were blown down.	Lake wates		le was cattle				ing	while	rid:	ing a horse
Brevard Co., Scottsmore(6mi S)	06 1530EST 0 6 4 0 TSTM wind (65)  High wind blew a mobile home off its foundation into a pond. Six people in the home suffered minor injuries.										
Flagler Co., St. Johns Park	06 1545EST 0 0 5 0 TSTM wind (65) High wind destroyed a mobile home and a camper	9 GEORGIA									
Santa Rosa Co.,	vehicle. Sheds were destroyed and several trees were uprooted. A horse barn was destroyed.  07 1400CST 0 0 2 0 TSTM wind (60)	Wilkinson County, McIntyre	08	.615EST			0	0	7	?	Hail (1.00)
Jay (2mi E)	High wind blew down two 70 foot tall high tension power poles.	Morgan County, 2N Rutledge	Thund	530EST lerstorm lity of H	winds ard Lab	downed	0 I seve	0 ral e Pa	? trees rk.		TSTM Wind wer lines in the
Orange Co., Apopka (2mi NW)	07 1520EST 0 0 0 0 Hail (1.5) Hail 1.5 inches in diameter was reported.	McDuffie County, Thomson	1	.550EST	-,		0	0	?	0	Hail (0.75)
Seminole Co., Oviedo	07 1550EST 0 0 0 0 Hail (0.88)	Columbia County, 10W Augusta		700EST			0	0	?		TSTM Wind Hail (1.00)
OATEGO	Hail the size of nickels was reported along with very strong wind.		Count	y line w				60 mp	h near		Columbia-Richmond
Brevard Co., Melbourne	07 1700EST 0 2 0 0 Lightning Lightning injured two men on an airboat. Light rain was falling from an approaching thunderstorm	Harris County, 3W Whitesville	09 1	710EST 710EST	limbs	were do	0	0 0 oy th	? ? unders	?	Hail (0.75) TSTM Wind
Clay Co	at the time.	Dooly County,	Shoal	s area w			rille.	0	,		TSTM Wind
Clay Co., Orange Park	10 1618EST 0 0 3 0 TSTM wind (55) High wind damaged a sign, blew the roof off of a nursery shed and blew down several trees.	Vienna	A bu	ilding thunder	storm	winds.	lamaged Trees	and and	power	s suff lines	ered roof damage were also downed illing trees.
Bradford Co., Lawtey	10 · 1625EST 1.0 30 0 0 0 Tornado (F0) A tornado was sighted in a rural area. Trees were	Crisp County: Cordele 15 Cordele	09 1	800EST	city.	1#U IIC	omes we	ere a O	amageo ? ?	?	Hail (1.75) TSTM Wind
Gulf Co., Port St. Joe	blown down.  12 1400CST 0 0 3 0 TSTM wind (55)  High wind blew over a substantial sign and a satellite antenna. Small hail damaged several cars.	10 Cordete	Thund Corde down	lerstorm	⊌oman sign.	was in Many r	tree	whe	power n hit	lines by deb	and signs in ris from a blown due to the down

												JUNE 198
	NO. OF ESTIMATED PERSONS DAMAGE				CAL	РАТН	Ĕ	NO. PERS		STIMA DAMA		
PLACE	STANDARD STANDARD STANDARD STANDARD MILES MILLED MUNRED SANORES RROPERTY CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF I	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
GEORGI	4		GEORGI	A								
Turner County,	09 1820EST 0 0 ? ?	TSTM Wind	Screven County:	1								
Dakota	Thunderstorm winds downed trees across U.S. Hig	hway 41.	5E Sylvania 4S Sylvania	24 14 24 14				0	0	3 4		TSTM Wind TSTM Wind
Bibb County, Macon	09 1840EST 0 0 ? ?	TSTM Wind										es and destroyed A building was
nacon	Thunderstorm winds downed large tree limbs the eastern and southern sections of Macon.	and power lines in		ì	yed sout	h of S	Sylvania		_	_		
Twiggs County:			Newton County, 8SW Covington	24 14 Thunde		winds.	unrool	0 ted 4		?		ISTM Wind nd damaged other
Jeffersonville Bullard	09 1915EST 0 0 ? ? 09 1915EST 0 0 ? ?	TSTM Wind TSTM Wind		trees	in the s						٠.	-
	Thunderstorm winds blew down trees across U Georgia Highway 96 in Jeffersonville. Power Interest of Locations throughout Twiggs Counthouse was blown off and part of a barthunderstorm winds near Bullard.	nes were downed at	Bulloch County, Statesboro	lines States blown	erstorm and he aboro on off and	avily U.S. the l	damage High ack wal	ed two way 80 11 of s	buil Two n open	dings buil bay	wned and dings garag	rstm Wind  trees and power one garage in had their roofs e was blown out. h of Statesboro.
Wilkinson County: Irwinton Toomesboro	09 1930EST 0 0 ? ? 09 1930EST 0 0 ? ?	TSTM Wind TSTM Wind and Toomesboro.		Numero power going	ous tree	s wer	e upro man wa e in th	ooted s injur he road	by thred whe	e wir n str	d and	there were many y a car that was ons were treated
Laurens County,	09 2000EST	TSTM Wind	Spalding County,	24 15	40EST			0	0	?	0	TSTM Wind
Dublin	Thunderstorm winds flattened a warehouse unde uprooted several trees in Dublin. One of the t mobile home, destroying it.		4E Griffin		al trees erstorm w		upro	oted o	or ensy	ped o		st of Griffin by
Walton County,	17 1600EST 0 2 ? 0	TSTM Wind	B1bb County, 5W Macon	24 16				0	•	?		TSTM Wind erstorm winds.
Monroe	Thunderstorm winds downed trees in Monroe, injured when a tree fell on the car they were i		Monroe County,	24 16		Const	. ucc 1011	0	0	?		TSTM Wind
Baldwin County,	17 1810EST 0 0 ? ?		2S Forsyth	Thunde	erstorm v	vinds i	blew do	wn powe	er line	8 801	ıth of	Forsyth.
Milledgeville Union County, Blairsville	18 1420EST 0 0 ? ?	Hail (0.75)	Upson County, 7W Thomaston	24 16 Two tr	645EST eeswere	downer	i by th	0 undersi	0 torm vi	? .nds.	0	TSTM Wind
DeKalb County,	18 1436EST 0 0 4 0	TSTM Wind (70)	Montgomery County,	24 17	745EST			0	0	?	0	TSTM Wind
Chamblee	18 1530EST 0 0 5 0	Lightning	Uvalda	Part o	of a root	f of a	house	was blo	own off	by	thunde	rstorm winds.
	Thunderstorm winds gusted to 81 mph at the Airport. There was roof damage to several air to a few aircraft parked on the apron. Mir	port buildings and	Leurens County, 2S Dublin	24 18				0	-	?		TSTM Wind
	was also reported in the area. Lightning ce that damaged a church, destroyed one home	used several fires	Montgomery County,	Thunde 24 18		winds	downed	trees 0		wer .		south of Dublin. TSTM Wind
Dodge County,	others.	Heat	Ailey		were do	med by	y thund					
Milan	A woman living in a un-airconditioned traile	I	Dodge County,	24 18				0	0	5		TSTM Wind
F-14 Ca4-	died of heat stroke. F50P   18 1512EST	Linkson	6NW Eastman									arly \$500,000 to ere detroyed and
Fulton County, Atlanta	A house and an apartment building along with	Lightning		100 1	foot si	lo wa	s ripp	ed in	half.	Ot	her s	heds and utility
Parent Carratur	damaged by lightning-caused fires.		Rabum County, Clayton	25 15	545EST			0	0	?	?	TSTM Wind
Bartow County, 4N Cartersville	18 1530EST 0 0 ? ? Thunderstorm winds downed several trees across	TSTM Wind	Ciayron	A tree	e was blo	own do	wn onto		by th	ınder		
	of Cartersville.	o oasere word north	Heard County, Franklin	25 16	610EST were do	4 1		0	0	?		TSTM Wind
Cherokee County, Woodstock	18 1545EST 0 0 4 0 18 1545EST 0 0 ? ?	Lightning TSTM Wind	The state of the s			witeu b	y chuiu					
	Lightning caused three house fires near Woods winds downed numerous trees between Canton and		Heard County, Franklin	25 16 A man		struck	and i	-		0 htni:		Lightning he was returning
Gwinnett County, Lawrenceville	18 1600EST 0 0 5 0	Lightning		from an op	a day of en area	fish:	ing. He	had jurds fro	ust lef	t a l	oat a	nd was struck in ompanion who was injured. M550
	Lightning started 8 house fires and several just east of Lawrenceville. Though most of the one house was totally destroyed.		Meriwether County,	25 16	34EST			0	0	?	7	TSTM Wind
Walton County,	1	TSTM Wind				inds o	iowned p		lines i	n the		unity of Gay.
Walnut Grove	Large trees were blown down along Georgia Hig Grove.	hway 138 in Walnut	Coweta County, Roscoe	25 17 Thundenear R	rstorm	winds	downe	0 d seve	U eral tr	ees e		TSTM Wind
Barrow County, 1E Winder	18 1655EST 0 0 ? ?	TSTM Wind	Macon County,	25 17				0	0	?	7	TSTM Wind
	Three trees were blown down by thunderstorm Winder.	winds just east of	10NW Montezuma	Numero Highwa		s wer	re down	ned by	, thur	derst	orw	winds on Georgia
Monroe County, Bolingbroke	19 1615EST 0 0 ? ?	TSTM Wind	Monroe County	25 18				0	0	?	0	ISTM Wind
Crawford County, 9NE Roberta	19 1615EST 0 0 ? ?		2W Forsyth			winds	down	ed tre	es on	to p	ower	lines west of
	Trees were downed by thunderstorm winds near the Moran community of northern Crawford County		Lumpkin County,	Forsyt				0	5	0	0	Lightning
Whitfield County, Dalton	A 72 year old man died due to heat stroke. M72P	Heat	58 Dahlonega	Five							truck	a pavilion next
	I	1										

TUNE 1088

	SCAL SCAL	E	NO. O		ESTIMATED DAMAGE	*		,		CAL	PATH	Ę		OF	ESTIM. DAM	ATED† IAGE	
PLACE	DATE TIME - LOCAL STANDARD LENGTH OF PATH	WIDTH OF PAT	KILLED	NJURED	PROPERTY		CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF F	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
GEORGI	<del></del>	1					 	GEORGIA	ىــــــــــــــــــــــــــــــــــــــ	— <u> </u>		<u> </u>	<u> </u>		L	L	<u> </u>
Clarke County, Athens	25 1850EST Thunderstorm winds of the trees fell	downed	0 2 trees	and	5 ? power line	es ir	TM Wind  n Athens. Some ed when a tree	Lee County, SS Leesburg Dougherty County,	27	1515EST			0	0	?		Hail (1.00)
Oconee County, Watkinsville	fell on the car the	y were i	n. 0 0		? ?	TS1	rm Wind	Albany		l525EST derstorm	winds d	lowned 1	0 arge	0 tree	? limbs	?	Hail (0.75)
Greene County, 10NW Greensboro	Thunderstorm winds 25 1930EST Large tree limbs storm winds in nort	were b	0 0 lown de	own	? ?	TS1	TM Wind	Turner County: Rebecca Rebecca SSE Ashburn SSE Ashburn	27 1 27 1 27 1	1530EST 1530EST 1615EST 1615EST			0 0 0	0 0 0	? ? . ? ?	? ? ?	TSTM Wind Hail (0.75) TSTM Wind Hail (0.75)
Fulton County, Sandy Springs	25 2000EST 25 2000EST Thunderstorm wind Springs. A house wa	is downe	0 0 0 0 d tree	s a	? ? ? 0 and power	Li	TM Wind ghtning nes in Sandy	Worth County, 12N Sylvester	Turns 27	er County 1605EST	by thu	indersta	rm wi	Inds. O	?	?	ast and southern  TSTM Wind  Georgia Highway
DeKalb County, Chamblee	25 2015EST Trees were downed t		0 0	)	? 0	Chaml		Greene County: SE Greensboro SW Greensboro	33 in	the nor						?	TSTM Wind TSTM Wind
Baldwin County, 2SE Milledgeville	Trees were downed southeast of Milled			line			TM Wind	Taliaferro County, SW Crawfordville	Trees	1230EST were do y and in							TSTM Wind
Jones County, 3N Gray	25 2105EST Thunderstorm winds	downed s		tre	es north o	f Gra	•	Early County, Blakely	Seven	1400EST ral power derstorm				0 ew las	? ge tre		TSTM Wind s were downed by
Tift County, Tifton	25 2330EST  Thunderstorm winds southern part of Ti		0 0				TM Wind r lines in the	Bibb County, 9S Macon		442EST s gusted	to 58 π	nph at t	0 he Le	0 ewis I	0 . Wila		TSTM Wind (50)
Houston County, 5S Perry	26 1230EST Thunderstorm winds a barn south of Per		0 0	and	4 0 utility p		IM Wind and destroyed .	Wilkinson County, 2S Irwinton	Thunc	445EST	vinds d	lowned p				of Ir	
Bleckley County, 2SE Cochran	26 1500EST Several trees winds.		0 0 own de				IM Wind f Cochran by	Lee County, 5SE Leesburg	Seve	neast Lee			0 wea			in so	TSTM Wind
Booly County, Byromville	26 1500EST Thunderstorm winds	blew dow	O O				TM Wind	Crisp County, Cordele	1		imbs ar	ıd power	0 : line	0 es we	? e blow		TSTM Wind  by thunderstorm
Laurens County, 158 Dublin	26 1600EST Thunderstorm winds southern Laurens Co		0 0	. 20			IM Wind	Wilcox County: . 2S Rochelle 4W Abbeville	30	1545EST 1545EST	Maram	down h	0	0 0	? ?	0	TSTM Wind TSTM Wind across Georgia
Calhoun County, 3NE Arlington	26 1710EST Trees were blown 45.	down, on	0 0 e strik				IM Wind corgia Highway	Ben Hill County:	High	vay 112 3 fell on	south	of Roch	elle west	and w	est of bbevil	Abbev	ille. One of the
Monroe County: 5SW Forsyth 2W Forsyth	26 1820EST 26 1820EST	m nower	0 0 0 0	129	? 0 ? 0	TST	IM Wind IM Wind	14NW Fitzgerald 7NW Fitzgerald Fitzgerald Wheeler County, Alamo	30 I 30 I 30 I	1600EST 1600EST 1615EST 1615EST	winda	unroot	0 0 0	0 0 0 0	4 ? ? ? .	? ? ?	TSTM Wind TSTM Wind TSTM Wind TSTM Wind power lines in
Jones County, East Juliette Monroe County, Juliette Jasper County.	26 1805EST 26 1805EST 26 1915EST		0 0		? ?	Hai	11 (1.00) 11 (1.00) 11 (1.75)		and thund	gerald an a house lerstorm	nd Ala heavi winds re dama	mo. Nu 1y dama near	merou ged a Abba,	is ch and th Fai	inaber e roof m equi	ry tre of an pment,	es were uprooted other damaged by a grain bin and miles northwest
Monticello Gilmer County, 3S Ellijay	26 2000EST		0 0		3 0		ghtning	Telfair County, Jacksonville	Thunc							mapped	TSTM Wind the tops out of air County.
Jefferson County, Stapleton	Lightning set a hou 26 2045EST  Thunderstorm winds power lines in S injured when the was torn off and th	damaged tapleton window w	D 1 many he . A cl as blown	omes bild n ir	4 D s, uprooted d standing n. The root	d tre	r a window was a mobile home	Laurens County, East Dublin  Liberty County Rinesville,	Thund in Ea	630EST Merstorm Mest Dublin		downed	0 sev 0	0 veral 0	? trees 4	across	TSTM Wind U.S. Highway 80 TSTM Wind
Camden County, 2NE Kingeland	27 0005EST  Lightning caused a several small brush	fire th	0 0		5 0	Lig	ghtning			bile hor Inesville		destroy	ed an	nd a h	ouse d	amage	by falling trees
Wilkes County, Washington	27 0015EST Lightning started century home in Was		0 0				ghtning a stately 19th										
Bibb County, Macon	27 0800EST  A 52 year old m	an died	1 0		0 0 troke at a	Hea reso	· [										
<u> </u>				_		_							_				

			JUNE 19
	NO. OF ESTIMATED! PERSONS DAMAGE		NO. OF ESTIMATED! PERSONS DAMAGE
PLACE	TIME - LOCAL STANDARD STANDARD STANDARD STANDARD (ARDE) WILLE WILLE OR PROPERTY OR OP PATH OF	PLACE	TIME - LOCAL STANDARD
10 IDAHO		11 ILLINOIS	
IDZOSE-OSW Southeastern Idaho Southwestern Idaho	1-30 Drought	Du Quoin Perry Co	3 1320CST 0 0 3 0 Tetre wind Strong thunderstorm winds caused extensive damage to a mobile hor
	Streem flow and reservoir levels continued very low.	Alton	and demolished a shed southeast of Du Quoin.  6 1600CST 0 0 4 0 Tetm wind
Bannock Co.	l5 1500MST 0.2 75 0 0 4 0 Tornado (FU)	Madison Co	Strong winds measured to 63 mph knocked trees onto cars, power lines and a house in Alton.
Pocatello	A large 150 ft. long shed was lifted 40 feet into the mir at 2601 Pole Lane.	Edwardsville Madison Co	8 1625csT 0 0 3 0 Funnel cloud
			Winds estimated over 60 mph blaw down some trees. A co-operative weather observer reported a funnel cloud near Edwardsville.
Clearwater Co.	16 1800- 0 0 0 Lightning 2000PST	Belleville St. Clair Co	8 1630CST 0 0 4 0 Tstm wind Damsging winds in Belleville blew down some trees and power lines
	Lightning ignited 30 fires, the largest of which was three- quarters of an acre. One fire in the Mallard-Larkins Pioneer	New Athens St. Clair Co	8 1700CST O O 3 0 Tetm wind
•	area northeast of Pierce was allowed to burn naturally.	3N Fredrickstown	Strong winds blew down a few trees.  8 1745CST 0 0 3 0 Tetm wind
Jefferson Co.	25 1710MST 0 0 4 0 Thunderstorm	Madison Co	High winds blew down some trees.
serierada co.	"Winds moved everything movable". Lightning struck Utah Power	1.5S Aroma Park Kankakee Co	20 1900CST 0 0 4 0 Tetm wind
	and Light's Amyra Substation at Goshen, causing power outages affecting 1000 customers.		High winds blew down a couple of large trees and tore off house shingles and doors off a farm building. Hail of unknown size destroyed 75 acres of bean plants.
Gooding Co.	25 1730MST 8 1000 0 23 6 ? Thunderstorm wind (85)	ILZALL Entire State	All Q Q O ? Severe Drought Month
	like missiles" over a lerge area of the rest stop, breaking vehicle windows. A mobile home near the Bliss Power Plant was "picked up and dropped" 20 feet from its foundation with one wall blown 300 feet into a pesture. Bleven power transmission structures were toppled, eight on a 138,000 voil line and three on a 230,000 voil line. Crews worked through the night repairing rain damage, clearing roads, and restoring electrical service.		state ranges from about 3.5 to 4.5 inches. During June 1988 many co-operative weather reporting stations recorded total monthly rainfall amounts under one inch and some locations received less than 1/4 of an inch. The least amount reported for the month was mere 0.06 inches recorded at Piper City in Ford County in the ear Central part of the state. On the other hand, only a few areas in the north and central sections of the state received monthly totals over one inch. Golden in the far western section of the state had the greatest monthly total of 3.00 inches. Rainfall was
Valley Co. 25 N Crouch	25 1840NST 8 1000 0 5 4 5 Thunderstorm wind  A microburst blew down 500,000 board feet of commercial timber in the form of seed trees left over after a 1986 salvage sale. "The wind was strong enough that it would take a 24 to 25-inch tree,		a little more abundant in the far southern sections of Illinoia where monthly rainfall was generally in the 1 to 2 inch range, bu a few areas received less than one inch of rain. In general, the total rainfall across Illinois departed about 2.0 to 4.0 inches below normal for the month of June. Some specific rainfall data for June: 1.05 inches of rain recorded during June at the official
	break it off at the 15-foot level and sling it about 100 feet." Four campers were evacuated to hospitals; several vehicles were destroyed.		station for Chicago located at O'hare International Airport, the seventh driest on record dating back to 187; The total precipitation of 2.24 inches for May and June combined was the second driest on record and the 4.32 inch total for April, May an
Cemas Co.	25 Evening 0 0 0 Funnel clouds		June combined was the fourth driest: Urbans in the east-central section of the state was the driest June on record. Also, Urbans and Springfield reported the first six months of 1988 to be the
Cansia Co. Burley	26 1600mST 0 0 4 4 Heavy rain		driest such period on the weather record books. June's extreme dr weather, with the much below normal reinfall across much of the s during the Spring months of March. April and May, produced severe
	A thunderstorm with .87 inch of rain flooded many basements and some basement apartments with up to two inches of water. Wind and rain laid some wheat and barley down.		drought conditions in the northern and central parts of Illinois and moderate drought in the far southern sections by the end of June. Yearly rainfall deficits from January 1 to June 30 range from about 7 up to 10 inches below normal over northern and
Owyhee Co. Romedale	26 1630MST 6 1500 0 0 4 6 Thunderstorm wind (50)  Bail (1.0)		central sections of the state and shortfalls of 3 to 7 inches wer noted in the south. The following table summarizes rainfall amounts and departures from normal for June and for the first hal of the year. Data from official first-order weather reporting stations across Illinois and nearby bordering locations:
	Heaviest damage was along Succor Creek between the Oregon state line and Homedale, where 12 farms received over 80% hail damage to orchards, alfalfs seed, and truck crops. Several sheds and at least one sotor home were overturned by wind.		1988 DROUGHT FOR ILLINOIS  JUNE JANUARY 1 - JUNE 30
Elmore Co.	27 0 0 4 5 Thunderstorm		STATION RAINFALL DEPARTURE RAINFALL DEPARTURE
Glenns Ferry	wind, Hail Hail (size unknown) flattened wheat, other grains, potatoes, and		OUBLIQUE         0.70         -3.47         8.25         -9.90           MOLINE         1.16         -3.16         10.02         -8.19           ROCKFORD         0.45         -4.12         10.03         -7.71
Roomer Co	sugar beets. Wind damaged farm structures and hay stacks.		CHICAGO 1.05 -3.03 9.64 -6.75 URBANA 0.41 -3.51 7.74 -10.48 GALESBURG 1.05 -3.42 10.20 -9.29
Bomer Co.	27 0 0 5 0 Lightning Lightning struck the power plant at Cabinet Gorge Dam. Scores of appliances and satellite systems were damaged by power surge. The surge protectors in some cases were melted.		FECRIA
			Along with the developing severe drought conditions, temperatures across Illinois for the month of June averaged 1 to 4 degrees above normal. Daily maximum temperatures during the month were well above the normal and record daily maximums were set throughout the state on a number of days during June. Included here are some high temperatures recorded over 100 degrees for

<u> </u>	·		JUNE 19								
PLACE	TIME - LOCAL STANDARD	PLACE	STANDARD STANDARD STANDARD STANDARD STANDARD OLE ESTIMATED DAWGE (AMLES) OLE ESTIMATED OLE STANDARD OLE								
ILLINOIS		l —— IOWA	<u> </u>								
120114013											
	selected sites across [llinois. Chicago O'Hare Airport 104 degrees on the 20th (equalled the highest reading ever recorded for the month of June]; 101 degrees on the 21st; and 103 degrees on the 25th. (3 days of 100 degrees or more for the month were the most 100 degree days for any June on record.) Springfield101 on the 25th. Moline101 on the 20th; 100 on 21st; 104 on 25th. Rockford101 on the 20th; 100 on the 21st; 101 on the 25th. Peoria105 on the 25th (equalled the highest ever recorded for the month of June. Out of nearly 300 co-operative weather stations reporting, the highest recorded temperature for the month of June in Illinois was 106 degrees observed at Piper City in Ford County in east-central Illinois. Interestingly, Piper Gity had the least	All of Iowa	All Month  0 0 9 Drought The severe drought conditions that began over the State during the late Winter months began taking a toll on Lowa crops. Estimates through the end of June indicated that about 20% of the corn crop and 15% of the soy bean crop were destroyed. Damage for the corn and soy bean crops alone were \$1,300,000,000.								
	amount of rain for the month of June in Illinois and measured only 0.06 inches for the entire month.	V K 4 5 1 5 4 5									
		14 KANSAS									
		Washington Co 7N Clifton 5W Linn	02 0945CST 0 0 0 0 Funnel Clouds 02 1230CST 0 0 0 0 Funnel Clouds Several funnel clouds were sighted across								
12 INDIANA			Washington County during the late morning hours.								
LaPorte County, 3E Westville	20 0435 EST 0 0 ? ? Tstm Wind	Chautauqua Co Sedan	02 1325CST 0 0 2 0 TSTM Wind (52)								
3E MestAJII6	20 0435 EST 0 0 ? ? Tstm Wind  Nine to twelve trees 3 to 5 feet in diameter were uprooted, demaging 3 homes. A 30 x 50 foot barn was moved about 10 feet off its foundation.		A severe thunderstorm moved across far southeast Kansas and produced strong winds and pea size hail in Sedan. No major damage resulted from the storm.								
Allen County,	2045 - Tstm Wind	Shawnee Co Dover	02 1413CST 0 0 0 0 Funnel Cloud								
Fort Wayne	20 2112 EST 1 7 6 3 Hail (2.0)  A severe thunderstorm developed in east-central Fort Wayne at	5N Rossville	02 2043CST								
	a severe unmonstatum developed in east-central part wayine at approximately 860 pm est and moved southeast across the southeast side of the city, leaving a 6 mile long path of hail and wind damage estimated at \$1.5 million. Wind speeds within the storm were estimated at 60 to 70 mph with trees as big as 1 foot in diameter being clipped off. Much of the wind damage was due to trees falling on cars or houses.	Osage Co. 10NW Burlingame	02 1420CST 0 0 0 0 Funnel Cloud Strong thunderstorms developed across portions of northeast Kansas and produced several funnel clouds in the area.								
	Hail to 2 inches in diameter was reported, with the greatest hail damage occurring over the extreme southeast part of the city. One insurance company alone reported 250 hail damaged cars.	Reno Co Buhler	15 1320CST 0 0 0 4 Hat1 (1.0)								
	There were seven storm-related injuries and one storm-related fatality. The fatality was a 31-year-old male who was driving a motorcycle which hit a wind-downed tree. M31V	Harvey Co Hesston	15 1400CST 0 0 0 4 Hail (1.0)  A severe thunderstorm moved eastward from Buhler in Reno County to Hesston in Harvey County and destroyed 20 to 30 percent of the wheat crop in its path.								
		Johnson Co Olathe	15 1431CST 0 0 2 0 TSTM Wind (52)								
13 <b>IOWA</b>			A severe thunderstorm brought strong winds up to 60 mph as it moved through the Olathe area.								
Woodbury County, Anthon to Danbury	07 1925 CST 0 0 4 6 Hail (0.50)	Allen Co 38 Piqua Hill	15 1800CST 0 0 2 3 Lightning								
Buena Vista County: 2NW Rembrandt	07 2100 CST		Lightning started a fire that destroyed 10 acres of wheat and a tool shed.								
4E Rembrandt Marion County, Knoxville	07 2120 CST 0 0 4 0 Lightning 08 0134 CST 0 0 4 0 Lightning A thunderstorm complex developed over Northwest Iowa during the	Reno Co Hutchinson 2N Hutchinson	19 1635CST								
	evening of the 7th. Lightning struck 2 farmsteads near Rembrandt. The first was west of town, where 2 buildings were struck and 1800 bales of hay were destroyed. The second was east of town, where a building was struck, blowing a hole in the roof and setting it on fire. As the thunderstorms moved across Woodbury County, a considerable amount of marble size hail fell. A 14x4 mile area of crops was nearly destroyed. Damage was around \$750,000. As the storms moved southeast, a church was struck by lightning in Knoxville.		Intense thunderstorms formed across south-central Kansas during the late afternoon and evening hours. Hail up to golfball size fell in and around the Hutchinson area. Only minor damage resulted from the large hail.								
Fremont County, Bartlett	Damage was placed at \$20,000.  28 2230 CST	Harper Co Attica	26 1600CST 0 0 4 0 TSTM Wind  A severe thunderstorm developed across far south-								
Warren County: Indianola New Virginia Butler County, New Hartford	29 0130 CST		A severe truncerstorm developed across far souther central Kansas and produced damaging winds as it moved across the town of Attica. The strong winds destroyed a store front and threw a Cessna 177 airplane about 150 yards. The plane was totally destroyed. The storm also downed 12 large trees within the town.								
•	developed in West-Central and Southwest Iowa, and quickly spread to South-Central Iowa. A truck was blown off I-80 in Fremont County in Southwest Iowa. In Warren County, near Indianola, downburst winds gusted to over 90 MPH. These winds damaged the roof of a church. At least 2 large machine sheds were picked up and destroyed. Also, at Indianola, considerable damage was reported at a campertrailer sales business. Twenty trailers were blown over. Damage at Indianola was estimated at \$350,000-\$400,000. Lightrulm gsruck	Reno Co 105W Hutchinson 1.5NE Partridge 1NE Partridge 1N Plevna Hutchinson	26 1755CST								
	a farm at New Virginia. Fire destroyed a barn, machine shed, 2 tractors, and 300 bales of hay. The second area of thunderstorms was over Northern Iowa. Lightning struck a Farmers' Copy office at New Hartford. Fire destroyed the 40x100 foot building.	Sedgwick Co Wichita Wichita Wichita	26         1838CST         0         0         0         Funnel Cloud           26         1850CST         0         0         0         Funnel Cloud           25         1900CST         0         0         0         Funnel Cloud								

															_						
PLACE	SCAL	PATH	Ę	NO. C		STIMA DAMA		CHARACTER OF STORM				CAL	РАТН	F	NO. OF PERSONS		ESTIMATED <sup>†</sup> DAMAGE				
	DATE TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	מוררפס	INJURED	PROPERTY	CROPS		PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF I	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM			
KANSAS	5			·						KANSA	s		<u> </u>			L	الـــــِـــا		<u> </u>		
	Severe thunde	n Reno C	county (	during	the e	ven in	g hou			Morton Co Rolla	30	1600CST			0	0	4	4	Hail (.75), TSTM Wind		
•	The first to north of Pari open farm cou 1 mile north west in open resulted from	tridge a ntry. of Plevi farm coi	nt 1833( The sec na at 1 untry.	CST and cond to .849CST Only	d move rnado and d minor	ed wes touch also m crop	tward ned do noved damag	in own ge		Cowley Co Rock Winfield Winfield	30 30 30	17150ST 1751CST 1758CST	•		0 0 0	0 0 0	2 2 3	2 2 3	TSTM Wind (52) TSTM Wind (52) TSTM Wind (64) Hail (1.75)		
	in the Wichit in the metrop thunderstorms and power lin	olitan i in Hute	area. chinson	Strong blew	winds	s from	n			Sumner Co Wellington	30	1717CST			0	0	2	2	Ha11 (.75)		
Sadowiak Co										Seward Co 5W Liberal	30	1800CST			0	7	4	2	TSTM Wind		
Sedgwick Co SE Wichita SE Wichita NE Wichita	28 1630CST 28 1638CST 28 1638CST			0 -	0 0 0	2 2 2	0	TSTM Win TSTM Win TSTM Win	nd (56)	Harper Co 4NE Harper 6NE Anthony	30 30	1930CST 1935CST			0	0	2	2 4	Hail (.75) Hail (2.0)		
	Severe thunde sections of W hours and pro minor damage Marble size h	ichita duced w resulte	during inds up d from	the la to 65 the st	te afi mph. rong (	ternoc Only winds.	on /				sout afte larg stro dama	re thunde hwest and rnoon and e hail an ng winds ged a she	south- evenir d strom downed d and g	centra ng hour ng wind trees grain b	1 Kans s. Ti s in s and po in.	sas di ne sto some a ower p The ha	ring to orms pro creas. coles and ill and	he la oduce In R nd al resu	te i illa, so iting		
Cloud Co Huscher	28 1747CST A downburst f an empty graf power pole.	n bin t	hat in	turn k	nocke	d dowr	over		nd (52)		heavy rains of 2 to 4 inches damaged crops in the area. The city of Liberal was also hard hit by strong winds that overturned 8 mobile homes and injured 7 people. Severe thunderstorms in Harper County brought large hail up to 2 inches in diameter that damaged roofs, leveled crops, broke windows and										
Butler Co 15E El Dorado	29 1251CST			0	0	2	2	TSTM Wir	nd (52)		thun and tree	ed automo derstorms golfball s, damage he area w	also b size ha d roofs	rought all than and d	strom t brown ented	ng wir e wir autor	ds up i dows, i obiles	downe	<b>1</b>		
Sherman Co Goodland	29 1603CST			0	0	0	0	TSTM Wir	nd (56)					IAL HAI	•	-					
Cloud Co 155SW Concordia 15SSW Concordia	29 1725CST 29 1747CST			•	0 0	2 2		Hafl (1. TSTM Wir			that	as-Oklaho hail was ed counti	ma Hail especi	l Loss	Servi amagi	e rep	сгорь				
Crawford Co Pittsburg	29 1730CST	<b>4</b> 1		•	0	3		TSTM Wit	nd (52)		13th	Grant				,					
,	Scattered sev Kansas during Hail up to on to 65 mph acc minor damage trees were bl damaged in Pi	the af- ne inch companie was rep lown dow	ternoom in diam d some orted, n and a	n and e meter a of the howeve	evening and with s stor er sev	g hour ind gui ims. ( ieral	rs. sts Only large														
Northern Osage, Southern Douglas, Northern Franklin counties	30 0245 to 0730CST			0	0 -	6	5	Flash F	lood	15 KENTUCKY											
	A complex of heavy thunderstorms moved across portions of north-central and eastern Kansas during the early morning hours and produced extremely heavy rains in some areas. More than 12 inches of rain was recorded near Morden (12.21) while between 4 to 9 inches fell in an area from southeast Pottawatomic County and southern portions of Douglas and Shawnee counties across northern sections of Osage and Franklin counties. The resulting heavy rains caused widespread flash flooding from northern portions of Franklin and Osage counties into southern Douglas County. The small community of Lone Star in western Douglas County. The small community of Lone Star in western Douglas County. The small community of Lone Star in western Douglas County. The small community of Lone Star in western Douglas County. The small community of Lone Star in western Douglas form the flood. Damages to the homes alone was estimated at \$700,000. Many county roads were washed out or were impassable due to high water. Crops in the region were also severly damaged by the flood waters. The flood cut a swath 5 miles wide from just west of Lone Star eastward to US Highway 59. The heavy rains also sent many other creeks and the Makarusa River out of their banks. The Makarusa River at Lawrence rose from a level of 5 feet on June 20th to 29 feet by noon on June 30th, some 6 feet over flood stage. Some other rainfall amounts from the storm included: Overbrook 8.72 inches, Carbondale 6.54 inches, Louisville 5.30 and Auburn 4.10 inches.								Boyd County	A chunderstorm with winds near 60 mph ripped down a street in Catlettsburg, tumbling trees into several houses. Roofs and porches were damaged. Also electrical power to the area was knocked out for over three hours.											
										Campbell County	21 0300 EST 0 l 0 0 Lightning Campbell County officer Scott Bauerle was thrown across the room when lightning struck the county dispatch center in Alexandria. The current apparently ran through a telephone receiver.										
											fire Also		nd 60 m 1 large 1arge t	mph. L e plate tree li	ightn glas: mbs w	ing se s wind	t one l	house re b1	on own out.		
	·																				

PLACE	TIME TO CROPS  PROPERTY  RILLED  RILLED  RILLED  RILLED  RILLED  ROPERTY  R	PLACE	TIME - LOCAL STANDARD LENGTH OF PATH (VARDS) WIDTH OF PATH (VARDS) RILLED PROPERTY CROPS C
16 LOUISIANA		MAINE	
Jefferson Davis Parish, Jennings Acadia Parish, Crowley Iberia Parish,	03 1421CST	Cumberland Co. Gorham	05 1810EST 0 0 2 4 Hail (0.75)  Hail covered the ground to over a two-inch depth.
New Iberia	03 1600CST	Oxford Co. West Paris	05 1815EST 0 0 1 4 Hail (0.75)
	Strong thunderstorms developed over southwest Louisiana during the afternoon. Thunderstorm wind gusts downed trees and large tree limbs at Jennings. A roof was ripped off a commercial building at Crowley and trees were also downed by strong wind gusts. Several funnel clouds were sighted at New Iberia.	Penobscot Co. Bangor	16 1530EST 0 0 5 0 TSTH Wind (60)  A thunderstorm with measured wind gusts to 60 MPH at the Bangor
Washington Parish, Bogalusa	04 1600CST 0 0 ? ? Hail (1.00)		International Airport took down several trees and power lines. The hardest hit sections of the city were Essex Street, Brewer Lake, and Field's Pond areas.
Beauregard Parish, DeRidder	09 1900CST	Piscataquis Co.	20 Evening 0 0 1 5 Lightning
	Lightning struck a large tree in an open pasture. Seventeen head of cattle near the tree were killed by the electrical discharge. The loss was estimated at \$7,000.		Lightning from thunderstorms started 12 forest fires on Paper Company land in the northern part of the County. The largest fire consumed about 500 acres.
St. Martin Parish, Breaux Bridge	18 1925CST 0.4 20 0 0 4 ? Tornado (F1)	Piscataquis Co. Dover-Foxcroft	20 2055EST
	A tornado touched down briefly, ripping the roof off a small commercial building and downing several trees. Value of the loss		A thunderstorm produced winds that took down several trees.
District Control	was estimated at \$12,000.	Washington Co. Danforth	20 2145EST 0 0 4 0 TSTM Wind
Richland Parish, Holly Ridge	19 1445CST 0 0 ? ? TSTM Wind		A thunderstorm produced winds that took down several trees.
Rapides Parish, Hot Wells	Thunderstorm winds blew down several outbuildings.  19 1500CST 0 0 ? 4 Hail (0.75)	York Co. Lebanon	23 0000EST 0 0 6 0 Lightning
iot wells	A brief hail storm destroyed several hundred acres of cotton.		A thunderstorm with wind gusting to 40 MPH moved across York County. Lightning strikes caused several power outages. One bolt caused a fire that levelled a barn and workshop on the
Vermilion Parish, 6W Kaplan	22 1615CST 0 0 ? ? TSTM Wind  Thunderstorm winds destroyed several sheds and downed a couple of trees.		Prospect Hill Road in Lebanon.
West Carroll Parish, Oak Grove	29 1945CST 0 0 ? ? TSTM Wind		
	Thunderstorm winds downed 5 trees.	18 MARYLAND	and D.C.
LAZ001-006, north and central Louisiana	01 30 Extremely dry weather was recorded in north and central Louisiana during the month. Rainfall across the northern third of the state from Shreveport to Tallulah ranged between 0.20 to 0.60 inches; 15 to 20 percent of normal. In the central area, between 1.0 and 1.5 inches fell; about 40 percent of normal. For	Cecil Co, Elkton	7 1445EST 0 0 2 ? Thunderstorm Wind (69 kt) 0 0 ? ? Hail (1.00)  A thunderstorm produced hail and strong winds. Near Elkton, the winds blew a large part of a barn roof about 200 yards, damaged a house under construction
	the growing season beginning on April 1, rainfall has only been 25 to 35 percent of normal across the north and 40 to 50 percent of normal over the central. These rainfall deficits make it the worst drought since 1925 in many areas of north Louisiana. An economic estimate of agricultural losses due to the drought conditions will be given in storm data reports at the end of the growing season. The Mississippi River reached record low monthly		in Chesapeake City, and also overturned a camping trailer. Numerous trees were reported down throughout the county. Two inches of rain fell in less than an hour in Chesapeake City. No major damage was reported.
	stages along the Mississippi-Louisiana border southward to New Orleans. Due to low stages on the Mississippi River, salt water	Montomery Co.	8 2140EST 0 0 4 0 Lightning
	intrusion was noted along the river south of New Orleans. Salt concentration was low enough to not affect water supplies except over extreme south Plaquemines Parish. Construction of an underwater salt water sill was started on June 30th at Mrytle		Five houses were set afire by lightning between 2240 and 2400EDT. Total damage was estimated at \$16,000.
	Grove to stop the upstream movement of the denser salt water.	Statewide and District of Columbia	21-23 ? ? 0 ? Heat spell  Temperatures averaged well into the 90s throughout the state and the District of
			Columbia, with frequent readings of 100 or higher. Numerous records were broken.
17 MAINE		Frederick Co, New Market	22 1510EST 0 0 ? ? Hail (1.00)
Oxford Co. Newry	05 1730EST 0 0 1 0 Hail (0.75)	St. Mary's Co, Tall Timbers Somerset Co.	26 1540EST 0 0 3 ? Thunderstorm wind (89 kt) 26 1605EST 0 4 ? ? Thunderstorm
Oxford Co. Buckfield	05 1730EST 0 0 1 4 Hail (1.00)	,	Wind Strong winds associated with thunderstorms
Androscoggin Co. Turner	05 1730EST 0 0 1 4 Hail (1.00)		gusted to 89 knots in Tall Timbers, knocking over a 40 foot tall weather tower. Winds gusted to 50 knots at Piney Point. There was little damage elsewhere
Androscoggin Co. Leeds	05 1750EST 0 0 1 4 Ha11 (1.00)	'	in the county. The thunderstorm moved out over the Chesapeake Bay, tossing about a
Oxford Co. Sumner	05 1755EST ' 0 0 1 5 Hail (0.75)		96 foot tour boat leaving Tangier Island. Four people on the boat were injured. In Somerset County, strong winds knocked over
	An apple orchard suffered major damage to its apple blossoms from hail and heavy rain.		6 chimneys and many large trees, and broke numerous windows.

																			JUNE 198
	CAL	PATH	Ŧ	NO. C		ESTIMAT DAMA(						жи	РАТН	H	NO. PER	OF ONS	ESTIMA		
PLACE	DATE TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PAT (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM		PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
19 MASSACHU	SETTS			1						MASSAC	HU	SETTS							
MA 2001	05 2200EST			0 0	0	4	0	Gusty Winds		Franklin and	22	1800EST-			0	0	5	0	Thunderstorm
	06 0500EST A period of g limbs causing to several th	scatte	red pro	perty d				ked down tree ric power loss		Hampshire Counties	with limb	winds gus s. Power	ting u	p to 70 s affec	MPH : ted u	which p to	felle 15,000	d many to 20	Winds (60 kts) ss the counties trees and tree ,000 electric
Essex County, Lawrence	16 1645EST A teenager wa on athletic f				by a	bolt c	0 f 1i	Lightning gataing while runni	ng		hous Nort	es and aut	omobil 1d, Gi	les. A 111, and	small Nort	torn	ado wa	s susp	en trees fell on ected in the a swath of trees
Middlesex County, Dracut and Lowell	16 1600EST- 1630EST							Thunderstorm Winds (55 kts)		Worcester County, Central and	22	1830EST- 2000EST			0	0	5	0	Thunderstorm Winds (60 kts)
Essex County; Lawrence, Haverhill	16 1630EST- 1700EST							Thunderstorm Winds (60 kts)		Northern portion	Wind	l gusts wer	e reco	rded to	54 M	PH at	the W	orcest	ss the area. er Airport and s of reports of
and Methuen North Middlesex County and Essex County	16 1545EST- 1700EST			ø. c	0	5	0	Thunderstorm Winds (60 kts)			fall	en trees a	nd tre	e limbs eived.	caus Wides	ing s	catter	ed dam	age to homes and s occurred,
County	Up to 9,000 e thunderstorm limbs. The m Haverhill, No	swept t ost aff	hrough ected c	the are	ea, kno ties v	ocking were Me	down thue	trees and tree n, Lawrence,		Middlesex County, Dracut		1900EST eral large	trees	were d	0 owned	0 by th	3 unders	0 torm w	Thunderstorm Winds (50 + kts) inds.
Essex County, Salisbury				ht wind		sting t		Thunderstorm Winds (70 kts) ound 80 MPH, and their sides at		Hampden County, N. Chester	22	1905EST- 1910EST			0	0	3	0	Thunderstorm Winds (50 + kts)
Hampden County,	a campsite at			te Park						Hampden County, Chester		1905EST- 1922EST ball size	hail v	vas rep	0 orted.	0	4	0	Hail (1.75)
Springileid	ì			homes, s	start:	ing fir	es w	hich resulted		Hampshire County, Middlefield		1905EST fball size	hail	was rep	0 orted.	0	4	0	Hail (1,75)
Norfolk County; Milton, Quincy, and Weymouth				0 ,0		5	0	Lightning		Middlesex County, Lowell	22	1915EST			0	0	3	0	Thunderstorm Winds (50 + kts)
		total l	oss of lamage e	about \$	\$200,0 ed at	000, ar \$250,0	nd th 000.	le. One home in e church steeple A home in e.		Worcester County,	Thu:	nderstorm w 1915EST- 1945EST	vinds	knocked	down 0	sever 0	al lar	ge tre	es. Hail (.75)
Norfolk County, Weymouth	18 1555EST- 1605EST			0 (	0		0	Hail ·		Essex County, Essex	22	1915EST			0	0	3	0	Thunderstorm Winds (50 + kts)
	Small hail wi							ng a heavy				derstorm w	inds	knocked	down 0	sever	al lar	ge tre	es.
Plymouth County, Hingham	minutes resul	ting i	eather s	station	0 reco stre	0 rded l et flo	0 inch	Heavy Rain n of rain in 12 during a		Middlesex County, Maynard Essex County,	Thr	1915EST ee-quarter 1915EST	inch	hail fe	-	•	sever	e thur	Hail (.75) derstorm. Lightning
Berkshire County, Central and	thunderstorm. 22 1730EST- 1800EST			0	0 .	5	0	Thunderstorm Winds (60 kts)		Lawrence		ighening-ig e caused at					l bu11	ding a	nd the 5-alarm
Northern portion	70 MPH, knocki several hours	ng down	trees	and tr	ee li ric c	mbs. I ustome:	Power rs.	sting up to about was out for Falling trees mage. More than		Hampshire County, N. Amherst Middlesex County	22	1920EST			0	0	3	0	Hail (.90) Thunderstorm
Berkshire County,	one inch of i Marble size i	ain fe	ll duri	ng one	hour, scatt	causing ered 1	g str	reet flooding.		·	eas	t with wind	i gust:	estim	ated u	p to	70 MPH	. The	Winds (60 kts) inty from west to usands of people limbs. Three
North Adams	Quarter to he	lf dol	lar siz				đ.	,			peo	ple were in			tree	fell	on the	ir aut	o in Tyngsboro.
Berkshire County, Florida	22 1745EST Nickel size	ail wa	s repor		0	3	0	Hail (.90)		Essex County	ļ	1900EST 1945EST	ina no	ware *L	0 unders	0 torm	5 with w	0 rinde s	Thunderstorm Winds (60 kts) usting up to 70
Worcester County, Phillipston	22 1822EST			0	0	3	0	Thunderstorm Winds (60 kts)			MPH Mer Law	knocked ou rimack Vall rence Airpo	t pow ley.	er to u A small Thousan	p to 3 aircr ds of	3,000 aft w downe	) elect as fli d tree	ric cu pped o s and	stomers in the ver at the tree limbs
Worcester County, Templeton	22 1828EST Several larg	trees	were d	-	0 y thu	3 inderst	0	Thunderstorm Winds (50 + kts) winds.			dam was	age appeare	d to l	be in t ext day	he Law	rence	and H	averh1	Heaviest wind ll area. School f the hazard of
Berkshire County, Lanesboro	22 1833EST Dime size ha	ll was	reporte	d.	0	3	0	Hail (.75)		Essex County, Gloucester	Αt	1945EST hirteen ye	ar old	boy wa	C s str	l ick at	0 1d inju	0 ored by	Lightning a bolt of
Berkshire County, Pittsfield	22 1838EST 1851EST Nickel size		s repor		0	3	0	Hail (.90)		Middlesex County, Tyngsboro	Į.	htming whi	le in	a tent	at a 1	local O	campsi 4	lte. O	Thunderstorm Winds (50 + kts)
Berkshire County,	22 1839EST				0	3	0	Thunderstorm		1711800010	Thu	nderstorm	winds	knocked	down	seve	al tre	es.	
Dalton	Thunderstorm		knocked	down s	severa		ge tr	Winds (50 + kts) ees in town.	$\ $	Middlesex County, Maynard		1948EST fball size	hail	was rep	0 orted	0	3	0	Hail (1.75)
Essex County, Methuen	22 1858EST			0	0	3	0	Thunderstorm Winds (55 + kts)		Suffolk County		1945EST- 2015EST		·	0	0	5	0	Thunderstorm Winds (59 kts)
Wellingt	Thunderstorm	winds	estimat	ed over	r 60 I	MPH kno	cked	down several			V1c Air	ast-moving inity. A	wind g re wer	ust of e numer	68 MPI ous r	H was eport	record	ded at	through Boston and Logan Intl. trees and tree
										Middlesex County, Acton	22	bs and sca 2000EST se size hai			0	0	3	0	Hail (.75)

	<del></del>			-								JUNE 1706
PLACE	DANAGE  O CHAI  O CHAI	RACTER			LOCAL	F PATH	PATH S)	NO. PER		ESTIMA DAM/		CHARACTER
PLACE	TIME - LOCA STANDARD LENGTH OF PAT (WILED INJURED CROPS CROPS CROPS  STANDARD LENGTH OF PAT (WILED CROPS CROPS CROPS  STANDARD CROPS	OF TORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF Storm
MASSAC	HUSETTS		MINNES	ОТА								
Middlesex County, Sudbury	22 2000EST 0 0 3 0 Thunder Thunderstorm winds knocked down several trees.	rstorm (50 + kts)	Koochiching Co. Big Falls 10E Little Fork		1340CST 1410CST			0	0	0	0	Thunderstorm Wind
Worcester County, Sterling	22 2000EST 0 0 3 0 Thunder Winds (	rstorm (53 kts)		Thun		winds k	nocked	down	trees	aroun	-	Falls and east of
Norfolk County, Milton	22 2010EST 0 0 4 0 Thunder Winds ( Thunderstorm winds knocked down several trees.	rstorm (64 kts)	Steele Co. Owatonna	14	1720CST			0	0	0	?	Thunderstorm Wind (57)
N. Plymouth County Hingham	, 22 2015EST 0 0 3 0 Thunder	rstorm (45 kts)	Dodge Co. West Concord	14	1747CST			0	0	3	?	Thunderstorm Wind/ Hail (2.0)
	Several branches were knocked down by thunderstorm winds.		Olmsted Co. 1SW Pine Island	14	1806CST			0	0	0	0	Hail (1.5)
Essex County, Peabody	22 2025EST 0 0 3 0 Thunder Winds ( Thunderstorm winds were estimated at 60 MPH.	rstorm (53 kts)	Goodhue Co. Pine Island		1815CST			0	0	0		Thunderstorm Wind
Plymouth County, southern portion,	26 0500EST- 0 3 5 0 Lightni 0900EST	ing	Wabasha Co. Mazeppa Zumbro Falls		1817CST 1830CST			0	0	0	0	Thunderstorm Wind Thunderstorm Wind
Barnstable, Dukes, and Nantucket Counties	Heavy thunderstorms brought damaging lightning, including lightning which hit a main power transmission line in San knocking our power to all of Cape Cod and Martha's Vineys 140,000 customers, for up to 6 hours. On Nantucket Islam people were injured by lightning while in buildings, and a of roof was ripped off by lightning. In Plymouth and on several homes were damaged by lightning strikes.	ndwich, ard, nd, three a section	zumoto ratis	Thumacro: per ! diamapowe: Dodge	derstorm ; ss norther hours wind eter fell r lines we	n Stee ds hit betwee ere dow Winds	le and Owatonn n West ned and also c	ied b north a and Conco wind aused	y hai ern D hail ord an ows w	l caus odge co up to d Conce ere bre	ed spo ountie two : ord. oken :	otty crop damage es. Sixty mile
			Pennington Co. Thief River Falls	15	1530CST			0	0	0	0	Funnel
20 MICHIGAN			St. Louis Co. Hibbing	15	1716CST			0	0	٥	0	Hail (0.75)
Chatham, Alger Co.	19 2009EST 0 0 0 Hail (0	),75)	Sherburne Co. Elk River	17	0130CST			0	0	6	0	Lightning
Wakefield, Gogebic Co.	25 0100EST 0 0 0 Hail (1	.00)		seve	tning caus ral busine half inch	esses.	The li	ghtni	ng hi	t and i		g housing i together two
			Norman Co. Gary Halstad 10E Gary	18	1840CST 1850CST 1857CST	-		0 0 0	0 0 0	0 0 0	0	Hail (1.25) Thunderstorm Wind Thunderstorm Wind (61)
			5N Ada .Polk Co.	18	1900CST			0	0	0	0	Funnel
21 MINNESOTA	• .		Erskine Clearwater Co.	18	1905CST			0	0	3	0	Lightning
Ottertail Co. 3SW Wadena	02 1600CST . 1 0 0 0 Lightning A man was hospitalized in critical condition and died after	er being	6SW Clearbrook 2S Clearbrook		1906CST 1910CST			0	0	3 0		Thunderstorm Wind Thunderstorm Wind (69)
	hit by lightning on a farm southwest of Wadena. The man whis pickup truck putting up hay as the storm approached.		Norman Co. Twin Valley	18	1915CST			0	o .	4		Thunderstorm Wind/ Hail (2.0)
Clearwater Co. Bagley	12 1300CST 0 0 0 Thunderst	torm Wind	Clearwater Co. Gonvick Bagley		1948CST 2000CST			0	0 0	0		Thunderstorm Wind Thunderstorm Wind
Koochiching Co. International Falls	12 1640CST 0 0 0 0 Hail (0.7	75)	Beltrami Co. Black Duck	18	2030CST			0	0	0	0	Thunderstorm Wind (61)
Lac Qui Parle Co. Dawson	12 2357CST 0 0 3 0 Thunderst	torm Wind	Itasca Co. Squaw Lake Island Lake		2040CST 2106CST			0 0	0 1	0 4		Thunderstorm Wind Thunderstorm Wind
	Winds damaged several farm sites northeast of Dawson. Se sheds were destroyed, a windmill was knocked down, windows broken and trees and power lines were downed.	veral	St. Louis Co. Mountain Iron	18	2230CST			0	0	0 -	0	Hail (1.0)
	Table of the penet allow note dominal		Aitkin Co. Hill City	18	2238CST			0	0	4	0	Lightning
Lac Qui Parle Co. 12E Madison  Kandiyohi Co. 10NE Willmar	13 2327CST 0 0 2 0 Thunderst A farm building was moved off its foundation.  14 0040CST 0 0 0 0 Thunderst Large tree limbs were knocked down.			Clear centr power north Jessi were injur Lake	water, so al St. Lo outages ern Itasc e Lake an reported ed and ho in extrem	uthern uis cou were wi a count d Bowst as far spitali e north	Beltrar unty. I idesprea ty alone tring ar east as zed whe	i and lumero id. T e, inc reas. Babb en a t asca	nort ous tr Thouse cludir Down oitt s cree f	thern I tees we ands of ing tree ned tree and Ely fell on ty. Wi	tasca re kn tree s in es an . A his nds g	ast through counties into ocked down and s were downed in the Bigfork, d power outages man was seriously tent near Island usted to 80 miles
				Black cross fairg Clear	Duck and ing arm ware rounds.	ten mi as twis A trail a gara	les eas ted and er hous ige was	t of buil e was taker	Gary. dings dama down	In B were ged si in Tw	agley destr x mil	es per hour at a railway oyed at the es southwest of lley. Lightning

	· · · · · · · · · · · · · · · · · · ·															JUNE 1900
PLACE	DATE TIME - LOCAL STANDARD	(MILES) WIDTH OF PATH WIDTH OF PATH (YARDS)	NO. O PERSO		AAGE	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED		PROPERTY PWWD STATES		CHARACTER OF STORM
	<u> </u>	1-1-						Щ.	F N	1	*					
MINNES	OTA						MISSISS	PPI								
LeSueur Co. Lexington	19 1604CST		0 (	0	0	Hail (1.75)	Coahoma County, 18N Clarksdale		1830CST			0	0	4		Thunderstorm Winds
Washington Co.								Lake		18 mil	es nort	th of I	Clarks	dale.	A 1a	east side of Moon irge tree also blew
Hugo	19 1711CST		0 (	5	0	Thunderstorm Wind/ Hail (1.0)	Jackson County,		2000CST	se and	ilcaviij		0	4		Lightning
						e as 10 inches	Gautier	Ligh	tning str	uck a h	ause, a	aught	it or	n fire	and r	nearly destroyed it.
	several barns	Two homes we were destroy hool was dama	ed. Pla	ayground	equipm	ent at an	Pontotoc County, Springville	08	0230CST			0	0	?	0	Thunderstorm Winds
						t east of Hugo.	Springvirie	Seve	ral large , 40 piec	trees es of t	were up	oroote	d and	twiste a hav	d in barn.	Springville.
Mille Lacs Co.	21 0700CST		0 (	) 4	0	Lightning	Wayne County,	1	1450CST				0	?		Hail (1.00)
		rked a fuel f it shore of Mi			ial fi	shing launch	Waynesboro	Nick	el size	hail co	vered t	the gr	ound i	in Wayn	esbor	· · · · · · · · · · · · · · · · · · ·
	atong the wes	se shore of MI	ite bac	, nake.			Hancock County, Bay St. Louis	09	2100CST			0	0	4	0	Thunderstorm Winds
St. Louis Co. Voyageurs National							1 200 000	Stroi dama	ng winds I ged when	blew do a large	wn sigr tree v	ıs in I vas upi	Bay Si rooted	t. Loui: i and f	s. (	on it.
Park Crane Lake	21 1930CST 21 2030CST		0 (	0 0	0	Thunderstorm Wind Thunderstorm Wind	Neshoba County,	18	1340CST			0	0	?	?	Hail (.75)
	Large pine tr	ees were knoc	ked down	in Voya	geurs ur. W	National Park by ind also knocked	10SE Philadelphia Northeastern Marion	18	1345CST			n	1	4	0	Thunderstorm Winds
1		ear Crane Lake		•			County, Improve	Stro	ng winds	demolis	hed a m	- nosque	temp	le that	was	nearly constructed.
Grant Co.	1057557		0 (	0 0	0	Hail (1.0)		on to	op of her	. When	the gi	irl was				structure collapsed was not breathing,
2NW Wendell Ottertail Co.	24 1953CST		0 1	, 0	U	naii (1.0)	Newton County, Newton		was revivo	ea thro	ugn cr	(. n	0	?	?	Hail (.75)
15E Fergus Falls	24 2000CST		0 0	0	0	Hail (1.0)	Copiah County,	ļ	1450CST			0	0	?		Hail(1.75)
Traverse Co. 6W Norcross	24 2000CST		0 0	3	0	Lightning	Hazlehurst	10	152005			•	•			***
Todd Co Bertha	24 2014CST		0 (		0	Hail (1.0)	Scott County, 7N Morton		1530CST na winds !	hlew do	wn tree	0 s and	0 nower	4 lines		Thunderstorm Winds
Morrison Co.	24 2014031		0 (	, 0	Ü	Hall (1:0)		Park.	. Three	cars an	d one o	abin	were d	lamaged	by t	the trees.
19SW Brainerd	24 2039CST		0 (	0	0	Hail (0.75)	Walthall County, Enon and New Bethel		1730CST			0	0	4		Thunderstorm Winds
Crow Wing Co. Brainerd	24 2100CST		0 (	0	0	Hail (1.75)		were	damaged,	and he	er a tr avy tre	e dama	and o	curred	a no	me. Numerous barns
Swift Co. 1N DeGraff	24 2116CST		0 0	) 4	0	Thunderstorm Wind	Itawamba County, 2NE Fairview		1500CST			-	0		0	Thunderstorm Winds
Pine Co.							Clairborne County,	-	trees we	ere blo	wn down				•	*L
Sturgeon Lake Carlton Co.	24 2206CST		0 (	) 0	0	Hail (1.5)	Port Gibson		1400CST rous trees	s and p	ower li		0 ere bl	? own dov		Thunderstorm Winds
Mouse Lake Barnum	24 2230CST 24 2230CST		0 0		0	Hail (1.75) Hail (1.75)	Copiah County,	1	1500CST			0	0			Thunderstorm Winds
	Lightning ble						10SW Crystal Springs									ut camp. Two of t no one was injured
}	north of DeGr	aff blew windo	ws out	of a mob	ile ho	ows. Wind just me, tore off the	Pike County,		1540CST	i on te	1165 #16		0			Hail (1.75)
	1001 01 0 010						5NW McComb									
Chisago Co. 1E Wyoming	28 0725CST		0 0	0	0	Hail (1.0)	Lincoln County, 18SW Brookhaven		1600CST were blo	חשר 10 -	niles s	0 outhwa	0	? Recolu		Thunderstorm Winds
Lyon Co.							Pike County, McComb		1605CST	zen 10 i	11162 P		0			Hail (.75)
Lynd	28 1545CST		0 0	4	0	Thunderstorm Wind	Leflore County,	ļ	1650CST			•	0			Thunderstorm Winds
Brown Co. Springfield	28 1700CST		0 (	4	0	Thunderstorm Wind	Minter City		inter City les were							mobile home.
	Wind destroye of Springfiel	d a garage at	ached t	o a home	near es and	Lynd. Just north	. Washington County,		1730CST	413U D	. OFIL UT	тога		atar ?		ence. Thunderstorm Winds
;	antenna were and a barn an	torn from a re	of, tre	es were	twiste	d and knocked down	8S Greenville	  Eigh	t miles s			/ille i	near L	ake Le	e, se	everal roofs were
					Ī	÷	Panola County,		ged and t 1530CST	rees we	re blow	vn dowi O		trong :		Thunderstorm Winds
							Batesville			and br	anches					inunderstorm winds in
								Bates	sville.	. •,						,
22 MISSISSIPPI							Lauderdale County, Toomsuba		1540CST na winds l	hlew s	roof of	U Ffam	U nhila	4 home		Thunderstorm Winds , trees and power
Jasper County, 10E Bay Springs	02 1310CST		0 0	?	?	Hail (.75)		lines	s were do	wned in	the To	omsuba	area	iioiii <del>e</del> .	MISC	, crees and power
Kemper County,	02 1430CST		0 0	?	?	Thunderstorm Winds	Lincoln County, 11E Brookhaven	1	1340CST				0	?		Thunderstorm Winds
10S DeKalb	Large trees we	ere blown dowr	10 mil	es south	of De				ng winds l iles east				at lea	ist 3 ca	ars o	n U.S. Highway 84,
Clarke County, 18NE Quitman	02 1530CST		0 0	?	0	Thunderstorm Winds	Warren County, 15NW Vicksburg	27	1445CST			0	0	3	0	Thunderstorm Winds
ZONE QUI ONGII	in the extreme	e northeast co	rner of	Clarke (	County	which is located . Also, strong			ng winds t ral vehic		trees	down i	in the	Eagle	Lake	area and damaged
L	winds blew do						L									

	NO. OF ESTIMATED PERSONS DAMAGE		NO. OF ESTIMATED DAMAGE
PLACE	TIME - LOCAL STANDARD - LENGTH OF PATH ('YARDS) NIUNED - CROPS	PLACE	TTME - LOCAL STANDARD - LOCAL STANDARD - LOCAL (ARLES) WIDH OF PATH (TARDS DATH OF BEASONS) CHARACTER OF SOORS CHARACTER OF SOO
MISSISS	SIPPI	24 MONTANA	
Jasper County, 10E Bay Springs	27 1600CST 0 0 ? 0 Thunderstorm Winds	Pondera County, Conrad Airport	3 1725 MST 0 0 0 0 TSTM Wind (G59)
Simpson County,	Several trees were blown down by strong winds 10 miles east of Bay Springs.  27 1700CST 0 0 ? 0 Thunderstorm Winds	Yellowstone County: Billings Huntley	5 1740 MST 0 0 4 0 TSTM Wind (655) 5 evening 0 0 4 0 TSTM Wind (665)
Mendenhall	Several trees were blown down near Mendenhall.	Custer Pompeys Pillar	5 evening 0 0 4 0 TSTM Wind (G65) 5 evening 0 0 4 0 TSTM Wind (G65)
Rankin County, 2SE Pearl	29 1745CST 0 0 ? 0 Thunderstorm Winds (660) Numerous large tree limbs were blown down by strong winds in Southeast Pearl. An awning was blown off a small eating	Choteau County: Warrick Highwood	7 1436 MST
Yazoo County, Bentonia	establishment. 29 2130CST 0 0 ? 0 Thunderstorm Winds	Deer Lodge County, Anaconda	8 afternoon 0 ,0 2 0 TSTM Wind (G55) Sign and tree damage occurred.
Madison County,	In Bentonia, an awning was blown off of a house. 29 2200CST . 0 0 ? 0 Thunderstorm Winds	Richland County, Sidney	8 afternoon 0 0 2 0 TSTM Wind (G50) A shed was blown over.
7W Flora	Several trees and power lines were blown down by strong winds.	Fergus County, 8NE Roy	8 1600 MST ? ? 0 0 3 0 Tornado (FO) A tornado took a roof off of a shed.
		Lewis & Clark County, 5NW Augusta	8 1613 MST 0 0 0 TSTM Wind (G58)
23 MISSOURI		Pondera County: Brady Conrad	8 1700 MST 0 0 0 0 TSTM Wind (G60) 8 1700 MST 0 0 0 0 TSTM Wind (G58)
Cedar County, SE Jerico Springs	2 1300CST 0 0 0 0 Hail (0.75)	Judith Basin County, Hobson	8 1700 MST 0 0 0 0 TSTM Wind (G50) Hail (1.75)
Dade County, Arcola Jasper County, Jasper	2 1302CST 0 0 0 0 Hail (0.75) 2 1430CST 0 0 0 0 Hail (0.75)	Phillips County: 2W Malta Landusky Zortman	8 1720 MST 0 0 3 0 Hail (2.75) 8 1720 MST 0 0 4 0 Hail (2.75) 8 1720 MST 0 0 3 0 Hail (1.75)
Warren County: Warrenton Wright City  St. Charles County, NWS St. Peters	8 1510CST 0 0 0 0 Hail (0.75) 8 1530CST 0 0 0 0 Hail (0.75) Rainfall of 1.50 inches accompanied the hail at Wright City. 8 1543CST 0 0 2 0 TSTM Wind Winds up to 63 mph were measured at the National	4W Malta  Daniels County, 12W Scobey	8 1725 MST 0 0 4 0 Heil (1.75)  Fower lines were downed.  8 1830 MST ? ? 0 0 0 0 Tornado (F0)  8 1830 MST ? ? 0 0 0 0 Tornado (F0)  8 1830 MST ? ? 0 0 0 0 Tornado (F0)  8 1830 MST ? ? 0 0 0 0 Tornado (F0)  Four small tornadoes were observed twelve miles
St. Louis County, Florissant	Weather Service Office in St. Peters.  8 1555CST 0 0 3 0 TSTM Wind Winds of up to 60 mph were reported by meteorologist	Sheridan County, 8SE Plentywood	west of Scobey. They did no known damage.  10 2030 MST
Franklin County, Union	Suy Tucker.  8 1600CST 0 0 1 0 Hail (1.75)	Broadwater County, Townsend	15 afternoon 0 0 3 0 TSTM Winds (670) Trees were blown down, causing building damage.
St. Louis County, Eureka	8 1600- 0 0 3 0 TSTM Wind and 1610CST Hail (1.75) Winds of 60 to 70 mph produced some tree damage.	Garfield County, Mosby	15 evening 0 0 2 0 Hail (1.75) Windows were broken out of houses.
St. Louis County, Pacific	8 1600- 0 0 3 0 TSTM Wind and 1610CST Hail (1.75) Winds of 60 to 70 mph accompanied hail of up to	Toole County, Shelby	16 afternoon 0 0 0 TSTM Winds (G60)
St. Louis County and St. Louis City	1 3/4 inch diameter.  8 1600- 1615CST Winds estimated at 60 to 70 mph produced major damage to trees in and around Forest Park, near the west-central portion of the city. The Park Service counted at least 70 trees that were downed. Tree damage was also reported in west portions of St. Louis County.	Missoula County, 5 to 15 N Seeley Lake Lake County, Polson	17 0010 MST 0 0 5 0 TSTM Winds (G70) Highway 83 was closed by hundreds of downed trees.  Lots of damage occurred to campers and buildings.  17 0015 MST 0 0 4 0 TSTM Winds (G70) Twenty power poles and numerous trees were downed. Finley and Pablo were also hit.
Jefferson County	8 1700CST 0 0 4 0 TSTM Wind A mobile home was blown off of its frame and completely collapsed. This damage was about 5 miles west of De Soto. Two mobile homes were hit broadside by strong winds on Stone House Road, about 1 mile west of De Soto. A McDonald's sign was also blown down.	Cascade County, Great Falls  Judith Basin County, Raynesford	17 1619 MST 0 0 3 0 TSTM Winds (G63) Tree and power line damage occurred.  17 1619 MST 0 0 3 0 TSTM Winds (G63) Tree and power line damage occurred.
Madison County, 3N Fredricktown	8 1745CST 0 0 3 0 TSTM Wind High winds produced tree damage and nearly blew a truck off the road on Route 67.	Missoula County, 5E Missoula	17 1730 MST 0 0 0 0 Hail (1.00)
Christian County, Billings	8 1810CST 0 0 0 1 Hail (1.75)	Wibaux County, Wibaux	19 afternoon 0 0 3 0 TSTM Winds (CSO) Damage was done to a building.
Stone County, 4N Crane	8 1839CST 0 0 0 0 Hail (0.75)	Gallatin County: Butte	21 afternoon 0 0 0 TSTM Winds (G60)
Maries County, Vichy Airport	23 1521CST 0 0 0 0 TSTM Wind Thunderstorm winds gusted to 58 mph.	4S Manhattan	21 afternoon 0 0 3 3 Hail (2.23) Damage to trees, crops and buildings occurred.

	Г	j.	F	T.		OF		ATED		][			<u> </u>	E			. OF		ATEDI	
Diver		Loc.	OF PATH	PATH (S)	PEF	RSONS		MAGE	CHARACTER	$\ $			LOCA D	JF PATH	PATH (S)	PER	SONS		AGE	CHARACTER
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH C	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM		PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM
MONTAN	۱A										NEBRASI	KA								
Ravalli County,	ſ									$\ $	Dawes Co.	13 18	15CST			0	C	5	4	Hail (1.75)
Hamilton to Victor		afternoon htning kill		x cows,	0 Many	0 y tree	4 s wer	3 e down	TSTM Winds (G50) Lightning ed.		5N Crawford	Wind-dr leaves								and stripped
Silver Bow County, Butte	25	1800 MST			0	0	0	0	TSTM Wind (G60)		Garden Co. 4NE Lewellen		18CST	damace	d a har	0 n. bl	0 ewsh		2 off a	Thunderstorm Wine farm house roof,
Sweet Grass County, Big Timber		1930 MST			0	0	4	0	TSTM Winds		Duel Co.	blew ov	er gra						1	Thunderstorm Win
Musselshell County,	Pov	mer poles am	d tre	es were	PTOM	псомт	1.				Big Springs	Strong		usts b	lew tre			,	•	Indiacipiona will
Roundup		evening age was dor	ie to	building	0 gs and	0 d tree	4	0	TSTM Winds (G70)	$\ $	Dundy Co.		900CST			0	0	4	5	Thunderstorm Wine
Ravalli County:	27	1235 MST			0	0	0	0	Hail (1.75)	Ш	5N Benkelman									Hail with the
Darby Hamilton	27	1257 MST			0	Ô	2	0	TSTM Wind (G50) Hail (1.00)	$\ $		10 mile	5.	crops	in a st	-				extending east
Flathead County: 5N Whitefish	28	1015 MST			0	0	2	0	Hail (0.75)		Scottsbluff Co. 3S Scottsbluff	15 1	845CST			0	0	3	3	Ha11 (1.75)
Olney Polebridge	28 28	1030 MST 1100 MST			0	, 0 , 0	0	0	Hail (1.00) Hail (1.75)	$\ \cdot\ $	Red Willow Co. 10SE McCook	]	705CST		35	0	0	2		Tornado (F1)
Missoula County, 6NW Missoula	28	1300 MST			, 0	0	0	0	Hail (1.75)			and mov	ed a si			east	caus	ing mi	nor da	-
Ravalli County, Darby to Victor	28	1330 MST			0	0	. 4	4	Hail (2.75)		Cheyenne Co. 12NE Sidney		.600CST .sts bro	ke tr	ee limb	0 s. Ha	0 :11 d:	5 riven!		Hail (1.75) Thundstorm Wind wind severely
Mandan Causty	Dan	age was don	e to	crops an	nd tro	ees.					Morrill Co.		crops	, brok	e windo	ws and	dam.	aged s	_	and a few vehicles Hail (1.50)
Glacier County, East Glacier	28	1430 MST			0	0	0	0	Hail (1.75)		5W Bridgeport	Hail da		rops.		·		•	,	Hall (1:50)
Teton County: Dutton 12W Choteau	28 28	1435 MST 1545 MST			0	0	0	0	Hail (1.00) Hail (0.75)	$\ $	Sarpy Co. Papillion	28 2	030CST			0	0	3	ı	Thunderstorm Wind
Pondera County, Valier and Dupuyer	28	1544 MST		٠		0	2	2	Hail (1.75)		LaVista	28 2	030CST			0	0	4	1	(56) Thunderstorm Wind
Glacier County,					0	0	0	0	Hail (0.75)		Douglas Co.	Sixty-f	ive m.,	o.h. w	inds do	wned 1	rees	and p		
Del Bonita Toole County,	28	1545 MST				. U				П	Omaha	Wind gu	sts bro	ske tr	ee limb			•		Thunderstorm Wind cattered areas of
Shelby Phillips County:	28	2030 MST			0	G	,	0	Hail (0.75)		Douglas Co.	the cit	y. 100CST			0	0	5	0	Lightning
Malta 355 Malta	29 29	1540 MST 1730 MST			0	0	0	0	TSTM Winds (G62) Hail (2.00)		Omaha	Numerou at a nu							tages .	and started fires
Valley County, 205 Glasgow	29	1730 MST			0	. 0	0	0	TSTM Winds (G60)		Cheyenne Co.		319CST			0		2	1	Tornado (FO)
208 Glasgow Garfield County,	29	1840 MST			0	0	0	0	TSTM Winds (G69)	$\  \cdot \ $	8NW Sidney	l .		touc	hed down			near a	Air	Force missle silo.
Jordan	29	1737 MST			0	0	0	0	TSTM Winds (G63)	11	Scottsbluff Co. 10NE Scottsbluff	29 1	515CST			0	0	0	0	Funnel Cloud
											Box Butte Co. 8SW Alliance	29 1	540CST			0	0	0	G	Funnel Cloud
											Jefferson Co. 2E Plymouth	29 10	645CST			1	0	0	0	Lightning
											• •	Lightn: system			nd kille	d a f	armer	check	ing a	irrigation
25 NEBRASKA										$\ $	Lincoln Co. 2SW North Platte		710CST- 720CST	- 1.5	60	0	0	4	1	Tornado (FO)
Brown Co. Ainsworth	12	1737CST			0	0	2	3	Hail (0.75)	$\ $	to 2WNW North Platte									outhwest of
Dawes Co. Crawford	12	1946CST			0	0	3	3	Hail (1.00)			downto	wn Nort s area	h Plan 2 mile	tte and es west-	moved- north	nori west	th life . Dame	ing i	n the rodeo cluded broken off its foundation
Box Butte Co. 3NW Berea	12	2000CST			0	0	4	5	Hail (1.50)											the rodeo arena
	da		ed to	crops in	n a b	and a	bout 2	miles	Extensive wide extending		Lincoln Co.		720CST- 900CST			0	0	5	2	Flash Flood
Box Butte Co. 5S Alliance	13	1700CST		***					Popular Charles	$\ $		Street	s and i	nterse	ins cau	sed u	rban flood	flood: led alo	ing are	ound North Platte. th some basements
Alliance Alliance	13 13	1706CST			0 0 0	0 0 0	0 3 5	0 2 4	Funnel Cloud Thunderstorm Wind ( Hail (1.75)	[60]	) Dawson Co.	and bu		s.		0	0	5		Flash Flood
	Wi	nd gusts dai	naged	trees ar	nd po	wer 1	ines.	Crops	were damaged.			20	000CST			•	·	,		
Cherry Co.	13	1735CST	0.1	25	0	0	2	2	Tornado (FO)	$\ $		through	h Cozad	and I	arr flo	oded	some	roads	and wa	Gothenburg east ashed out culverts
IN Merriman	To	rnado touch	ed dow	n brief]	ly 1	mile :	north	of Mei	riman.		Dayney C-	Crops &	and fie	lds we	re dama	ged,	and f	ences	were :	reported washed ou
Sheridan Co. Gordon	13	1745CST			0	. 0	5	4	Hail (1.75)		Dawson Co. 4NE Lexington		315CST usts bl	ew tra	es down	0	0	3	1	Thunderstorm Win
	fre l i	il broke wir om trees and mile wide si	i caus artin	ed heavy g just s	y cro	p dama	age ma	inly i	stripped leaves n a swath about extending	$\ $		I		5.0	40#11	•				

	1 7 .	- I	NI/	). OF	ECT	MATEDT				Т		T.		NO.	OF	ESTIMA	TENT	
	OC AL	PATH -		RSONS		MAGE		أ		1.	OCAL	PATH	¥.	PERS		DAM		CHARACTER
PLACE	DATE TIME - LOCAL STANDARD	LENGTH OF PAT (MILES) WIDTH OF PATH (YARDS)	KILLED	NJURED	PROPERTY	CROPS	CHARACT OF STORM	EK	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF I	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM
NEBRAS	<u> </u>	<u> </u>			1		1		NEVADA	Ц	L		l			1		
Custer Co.	29 1900CST-		0	0	. 5	6	Disch Pland				. c.c.c.nom			•	•			Funnel Cloud
Custer Co.	2100CST		U		,	0	Flash Flood	•	Pershing County		1755PST	rted a	funnel	cloud	exte	nding	1000 f	eet below the
	Around 5 to 1 northwest of	Broken Bow so	outh t	hrough	the	Callaw.	ay area flood			clo	id base an clock, NV	nd 5000	feet a	ibove t	he g	round	3 mile	s northeast of
	roads and bas causing sever were swollen	e erosion. 1	ortic	ns of	the 1	lud and	South Loup T		Lyon County	25	afternoon	n		0	0	°6	С	Flash Flood
	11.25 inches						ciai repoit w			A ti	nundersto	rm deve	loped r	ear th	e he	adwate	rs of	the East Walker rain as it moved
Phelps Co. 3W-2W Atlanta	29 1930CST		0	0	5		Thunderstorm	İ		dow	n the cou: t in some	rse of places	the riv	er. T ne flow	he l rat	evel o e incr	f the eased	river rose to 10 from 90 cubic
	Strong winds roofs, machin lines were al	e sheds and p							·	to	the East 1	Walker	Road in	sever	al p	laces	where	Damage was done water and debri: tely 18 miles
Phelps Co.	29 1950CST	1.0 40	0	0	6	3	Tornado (F1)			sou	th of Yer:	ington,	agricu	ltural	div	ersion	dams	were taken out to the ranch wa
ISE Holdrege to IESE Holdrege		-b - 1 - 1 1 -					1			str	eam, in t							Further down- s washed out of
	A tornado tou northeast 1 m occurred to s	ile. A mobil	le hom	e was	desti	royed.	Damage also		Elko County		field. 2115PST				۸	3	0	Flash Flood
	equipment man		ildin	g alor	ng wit	h tree:	s and power 1		erke county			rm sout	h of th	e town	of	-		produced heavy
Buffalo Co. Kearney	29 2015CST		0	0	3		Thunderstorm	Wind		93,	five mil	es sout	h of Ja	ckpot,	WAS	hed a		g across Highwa f the roadway.
	Winds broke a broke tree li	mbs.	prew	a sma.	LI SN	ed into	an auto and			The	passenge	rs esca	ped wit	chout i	njur	ies.		
Jefferson Co. Reynolds	29 2300CST		0	0	4		Thunderstorm	l		,								•
	Wind gusts to bins and down wind-driven h	ed trees and						grain										
Gage Co. Jefferson Co.	29- 2300CST- 30 0300CST		0	0	5		Flash Flood		27 NEW HAMP	SHI	RE .							
	Five to eight east to Odell creeks overfl bridges were	causing fiel	ld ero	sion a	and co	rop dam	age. Small	·	Grafton, Sullivan, Cheshire, Coos, Belknap, Carroll, Merrimack and Hillsborough Countie		1500 to 1800EST			0	1	5	0	High Wind
26 NEVADA										The niti emer pine his Newp Choo	wind took es causin gency cal tree app cruiser. ort, Alex	down g powe ll, was proxima Harde andria	trees, r outag seriou tely fo st hit , Mered Lake, C	branch es. A sly in ur fee areas ith, S	es a pol jure t ac were anbo	nd powerice ser d in Ho ross fl Lancas	r line geant. Iderne ew dov ter, M	e causing high we se in several co answering an ess when a "larg nn" in the path lashua, Manchest d, Laconia, Bel w, Troy, Walpol
White Pine County	12 1150PST	? ?	0	0	0	0	Tornado (FO)		Rockingham Co.	16	1 <b>73</b> 5EST			0	2	4	0	TSTM Wind,
	A Nevada High the ground ne tornado occur	ar Highway 6	, 12 n	iles :	south	east of			Salem	floo		street:	s. Lig	htning	str	ack two		Lightning m. Heavy rain working on a ca
Elko County	17 0850PST 17 1715PST		0	0	3	0	Lightning TSTM Wind (60		Cheshire Co. Hinsdale	22	1813E\$T			0	0	4	0	TSTM Wind
	A series of s and moved rap killed a fish	idly north i	nto El	ko Co	unty.	A bol	t of lightnin	g l		A th	understor	m produ	uced wi	nds th	at b	lew dow	n tree	s and power lin
	extreme south	ern Elko Cou or damage in	nty. the to	Thund own of	ersto Carl	rm outf in, NV	low winds later the sam	e	Hillsborough Co. Nashua	22	1902EST			0	0	5		TSTM Wind, Lightning
	day. Tree li of 40 to 50 M Lightning M43	IPH sustained	es wer winds	e blo	wn do: gust:	wn. Th s to 60	ere were repo	rts			understor to a bui		uced wi	nds th	at t	ook dow	n tree	s. Lightning s
Nye County Churchill County	20 1420PST 20 1747PST	u	0	0	0	0 0	TSTM Wind (64 TSTM Wind (58	}	Hillsborough Co. Pelham	1	1910EST			0	0	5	0	TSTM Wind
Lyon County	20 1830PST		0	0	. 5	0	TSTM Wind (80				understor homes we				at t	ook dor	n doze	ns of pine tree
	Strong thunde north. Thund weather obser Later, thunde	lerstorm wind ver at the T	s gust onopal	ting t	o 64 i airpo	MPH wer rt in w	e reported by estern Nye Co	the unty.	Rockingham Co Salem		1911EST			0	0	5		TSTM Wind, Lightning
	and sand in t	o two miles	at the	e Fall	on Na	val Air	Station. At	- 1										power lines do
	approximately Springs area, outflow winds	about 10 mi	les s	outh o	f Fer	nly, NV	Strong	- 1	Rockingham Co.	}	tning set Late Eve		.o anė l	nome, o	esti O	-oy1ng 6		Lightning
	through the t	own of Fernl umage, but no	y, in inju	north	ern L Tree	yon Cou s were	nty. There w pulled from t	as he	Newmarket, Brentwood and Newington	-		9		-	•	-	٠	- g., e., (11g
	ground and po was peeled of not tied down	ower poles we I a mobile h was blown	re sna ome, an over.	apped. nd ano Snap	A 2 ther ped p	5 foot mobile oles, u	section of ro home that wa prooted trees	of s and		Ligh each	tning str	ikes si	tarted	fires	that	burned	a bar	n to the ground
	the same out? caused gusty	imhs caused Freak that mo Winds and da	wides ved ti ngero	pread brough is lig	power the htnin	outage Reno-Ca g. In	es. Storms fr urson City are downtown Reno	om a a	Merrimack Co. Loudon	25	Evening			0	0	5	0	Lightning
	lightning bol a car parked				ultis	tory bu	ulding to fal	noı		Ligh bale	tning str s of hay	uck a l	oarn an	d set	it or	n fire. aze.	The	barn and 3000
										,	- 5. nay			.,. 611				

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PLACE	TIME - LOCAL STANDARD LENGTH OF PATH (WILLES) WILLED ROPERTY CROPS	PLACE	TIME - LOCAL STANDARD STANDARD STANDARD STANDARD CROPS SHOWN  CROPS CROP
28 NEW JERSEY	, Northern	NEW JEI	RSEY, Southern
Essex Co.	01 1529EST 0 0 0 0 Thunderstorm Wind	Gloucester County:	l.,
	A small group of thunderstorms moved across Essex County. As one thunderstorm moved across Newark International Airport the wind gusted to 60 knots(69 mph).	Swedesboro 15 Wenonah	22 1500 EST 0 0 3 ? TSTM Wind 22 1510 EST 0 0 3 3 ? TSTM Wind Thunderstorm wind gusts brought down three telephone poles and numerous power lines near Swedesboro in Woolwich Township. Three shed were off their foundations and numerous trees were
Essex Co.	0 0 -? 0 Thunderstorm Wind  A small group of severe thunderstorms moving across western Essex		downed just south of Wenonah along the border of Deptford and Mantua townships.
	County downed several large trees in Roseland.	Burlington County: 15 Lumberton	22 1520 EST
Hudson Co.	Ol 1615EST 0 0 ? O Thunderstorm Wind A small group of severe thunderstorms moved into Hudson County. Several large trees were uprooted in Jersey City.	Vincentown Unionville 3E Pemberton	22 1522 EST 0 0 3 ? TSTM Wind 22 1525 EST 0 0 3 ? TSTM Wind 22 1528 EST 0 0 3 ? TSTM Wind 22 1528 EST 0 0 3 ? TSTM Wind Thunderstorm wind gusts brought down power lines and poles just south of Lumberton, in Vincentown, in Unionville, Easthampton Township and east of Pemberton.
	i	Camden County, Somerdale	22 1530 EST 0 0 4 ? TSTM Wind
28 NEW JERSEY	, Southern	·	Thunderstorm wind gusts caused damage around Sterling High School in Somerdale. Chairs and awnings were blown over on the football field. A concession stand on the far end of the field had its roof blown off. The high school had a window blown out, a 20 foot
Gloucester County: Swedesboro Clayton Pitman IE Pitman	1 1645 EST 0 0 3 0 TSTM Wind 1 1700 EST 0 0 3 0 TSTM Wind (52) 1 1713 EST 0 0 3 0 TSTM Wind 1 1720 EST 0 0 3 0 TSTM Wind		section of aluminum awning ripped off the wall, a sky light blown off the roof, a satellite dish blown over on the roof, a TV antenna broken off, and sections of the gymnasium roof damaged (picked up and set back down). Near the high school a 25 foot section of 10-foot-high cyclone fence was blown part way down. Large tree limbs were downed across the street from the high school.
•	Thunderstorm wind guets brought trees down in Swedesboro. Clayton and Pitman, and also in Washington Township just east of Pitman. Wires were also downed in Pitman and Washington Township. The wind guets were estimated at 55 to 60 mph in Clayton.		
Camden County, Erial	1 1656 EST 0 0 ? 0 TSIM Wind (62) Thunderstorm wind gusts were measured at 71 mph.		
Burlington County, 4N New Gretna	1 1715 EST 0 0 ? 0 TSTM Wind (61)	29 NEW MEXIC	:0
Cumberland County,	Thunderstorm wind gusts were estimated at 60 to 70 mph in Bass River.	Rio Arriba County	ll early 0 1 0 0 Lightning afternoon Lightning injured an 18 year old male at a softball complex in Espanola.
Millville	1 1725 EST 0 0 3 0 TSTM Wind Thunderstorm wind gusts brought down trees and tree limbs.	San Juan County	11 1400 MST 0 0 ? 0 Thunderstorm
Ocean County, Brandt Beach	1 1740 EST 0 0 ? 0 TSTM Wind (52)		A fifty knot gust was reported by the Farmington airport tower. Power outages were reported from throughout the area.
Atlantic County, Bargaintown	Thunderstorm wind gusts were measured at 60 mph.  1 1755 EST 0 0 4 0 TSTM Wind  A hatchback window was blown out of an automobile and hit a van. At the same time, two buildings collapsed at an amusement area in	Quay County	11 1636- 0 0 ? ? Flash Flood 1945 MST One to five inches of rain fell around Tucumcari. Several roads were closed or washed out. Crop damage occurred, but no estimate of the loss is available.
Mercer County: Mercerville	Cardiff, Egg Harbor Township.  1 2140 EST 0 0 3 0 TSTM Wind	San Juan County	11 evening 0 0 ? ? Flash Flood Homes, businesses, and other structures were flooded by heavy rains.
Hamilton Square Hamilton Square	1 2143 EST 0 0 3 0 TSIM Wind 1 2143 EST 0 0 ? OTSIM Wind (52)  Large tree limbs were downed in Mercerville. A tree was uprooted in the Maple Shade section of Hamilton Square. Wind gusts were	Quay County	13 1308 MST 0 0 0 0 Funnel Cloud A funnel cloud was sighted near Ragland, 25 wiles south of Tucumcari,
Burlington County,	measured at 60 mph on Miry Brock Road in Hamilton Square.	Quay County	13 1530 MST 0 0 6 5 Flash Flood Hail (1.75) Thunderstorm Wind
Hainesport Ocean County,	1 2225 EST 0 0 3 0 TSTM Wind Trees and power lines were down in Hainesport.		Amounts of 2.5 to 7 inches of rain fell over the area. Extensive crop losses, flooding of homes and farms, and extensive damage to roads was reported. Seventy percent of the sorghum crop was destroyed.
4SW Tuckerton	1 2258 EST 0 0 ? 0 TSTM Wind (61) Thunderstorm wind gusts were estimated at 60 to 70 mph in Mystic Island.	Quay County	Hail occurred at Ragland at 1530 MST.  13 1925 MST ? ? 0 0 0 0 Tornado (FO) A tornado was reported over open country near Ragland.
Atlantic County, Mays Landing	1 2302 EST 0 0 3 0 TSTM Wind (61+)	McKinley County	25 1415 MST 0 0 ? 0 Hail (1.00)
Atlantic County,	Trees and limbs were downed and there was debris over roads. Thunderstorm wind gusts were estimated at over 70 mph.		Thunderstorm Wind Wind gusts caused the collapse of a lumberyard building in Gallup. One-half to one foot of accumulated hail was reported with the storm, most
Scullville	1 2307 EST 0 0 3 0 TSTM Wind Thunderstorm wind gusts damaged boats being stored along Mays Landing Road.		of it being under three-quarter inch in diameter. Heavy rain caused the hail to wash into two to three foot drifts around town, producing traffic problems. Flooding to three feet deep was also reported in Gallup with the storm.
Cape May County, Wildwood Crest	7 1625 EST 0 0 3 0 TSTM Wind (52) Trees were downed in Cape May Court House. Thunderstorm wind gusts were estimated at 60 mph in Wildwood Crest.	Bernalillo County	25 evening 0 0 5 0 Flash Flood Two to three inches of rain in the Albuquerque South Valley area flooded homes, businesses, and apartments with up to three feet of water.
		Eddy County	27 2015 MST 0 0 0 0 Funnel Cloud A rope-like funnel cloud was reported west of Brantley Dam, north of Carlshad.

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PLACE	DATE TIME - LOCAL STANDARD LENGTH OF PATH (MILES)	# PERSONS	CROPS CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	ENGTH OF PATH	WIDTH OF PATH (YARDS)	KILLED		PROPERTY		CHARACTER OF STORM
	9 19 7	> 2 Z	E 0		L	_	F W		*		=			
NEW ME	XIC0				NEW YO	RK;	Centra	1						
Counties	29 1250 MST A weather spotter or Bighway 285 on the C hail and heavy rain.	n a ranch twelve mi Chaves-Eddy county	les west of			line wind Sche	s and tre lows, and nectady A	e limb house irport	s. Unc siding. at 81	ommon Win mph a	ly larg d gusts nd to 6	ge hail s were 50 mph	l dam reco in t	brought down power aged automobiles, rded at the he City of County, MA.
					Clinton County Moors Champlain	22 22	2010EST 2020EST			0	0	3		Thunderstorm winds Thunderstorm winds
30 NEW YORK,	Coastal ——	NONE REPORTED					l trees u derstorms		d, and	limbs	and po	ower li	lnes	were downed during
30 NEW YORK, C	Central				Oneida County Oriskany Vernon Urica Utica Whitesburo Remsen	22 22 22 22 22 22 22 22	2210EST 2214EST 2223EST 2230EST 2303EST 2305EST			0 0 0 0	0 0 0 0	4 4 3 5 3 3	4 0 0 0	Lightning Lightning Thunderstorm winds Lightning Lightning Lightning
Herkimer County Broome County	05 1500EST 1900EST 05 1500EST	0 0	5 0 5 0	High winds		star		2) str						ines as well as even (7) cows were
Madison County	1900EST 05 1500EST	0 0	4 0	High winds	St. Lawrence County									
Chenango County	1730EST 05 1500EST 1830EST	0 0	4 0	High winds	Massena Massena	25	1230EST			0	0	5	0	Thunderstorm winds (Macroburst)
Otsego County	05 1515EST 1850EST	0 0	4 0	High winds	Franklin County Bangor	25	1230EST			0	0	5	3	Thunderstorm winds (Downdraft)
Cortland County Tiogs County Delaware County Clinton County	05 1500EST 1900EST 05 1500EST 1900EST 05 1600EST 05 1630EST	, 0 0	3 0 3 0 4 0 5 0	High winds High winds High winds High winds	Clinton County Morrisonville Mooers Chateaugay Chazy	25 25 25 25	1400EST 1410EST 1412EST 1424EST			0 0 0	0 0 0	4 3 3 3	0	Thunderstorm winds Thunderstorm winds Thunderstorm winds Thunderstorm winds
Essex County Putnam County Warren County Washington County	05 1630EST 05 1700EST 05 1940EST 05 2045EST Non-convective winc communities across wind gusts of 59 mi	Eastern New York. ph. Unofficial win	6 0 3 3 4 3 4 0 es and powe Broome Cou	High winds High winds High winds High winds Eigh winds or lines in several mity AP recorded we measured at	Peru	buil comp At a for one	ldings. 1 ponents. the same t several 1 (1) other	Iwo cov A depa time, u hours. r boat	rs were rtment p to 80 Three (a 35	also store perc (3) s oot s	killed colla ent of sail bos sailboa	by fl psed i the c ats ca t) had	ines ying n the ity v	Thunderstorn winds, and small out- limbs and building city of Massena, as without power d on Lake Champlain; mast snapped in
	during the event.	n Lake Champlain, 2 le had to be rescue foot waves were rec	5 distress d because o	calls were trans- of weather-related	Herkimer County Beaver River Stillwater Res.	25 25	f. Wind a			o. o	0	6 5	0	Lightning Lightning
Areawide	13 16	0 8	; ;	neat		hou		ocked 1	ower gi	nerac	.10ti St.	acions	011	line for a few
Areawide	near record levels	ve gripped Eastern ages and outages. and caused scatter had to be treated f	Power comsi ed brownou or heat-re	mption rose to	St. Lawrence County Massena Massena Brasher Falls Franklin County	25 25 25	1240EST 1240EST 1243EST 1245EST			0 .	0 0	3 3 3	3	Thunderstorm winds Hail (1.5) Thunderstorm winds
Aleawide	Recent heat wave h attention. Local mand due to water well below normal	as brought local wa water suppliers hav shortages. Most ar for precipitation. now cover during th	ater shorta ve not been reas of Eas This defe	ges to the public's able to meet de- tern New York are cit dates back to	Hogansburg Saratoga County	Thui	nderstorm fball size			down			and	Thunderstorm winds large tree limbs.
Fulton County		,			Saratoga Springs		2030EST	winda	took 1	0 100	0 werlin	4 ee		Thunderstorm winds
Perth Johnstown Johnstown Montgomery County	22 1532EST 22 1548EST 22 1550EST	0 0 0 0 0 0	5 5 2 0 4 0	Lightning Hail (0.70) Hail (1.5)		arou		ity of	Sarato	a Spr	ings.	Реа в	ize l	ail was reported
Fonda Saratoga County	22 1550EST	0 0	3 3	Hail (1.5)	Madison County Cazenovia	26	1836EST			0	0	3	0	Thunderstorm winds
Galway Mechanicville Mechanicville Washington County	22 1615EST 22 1630EST 22 1630EST	0 0 0 0 0 0	3 3 4 2 3 0	Hail (1.5) Hail (1.0) Thunderstorm winds										
Kingsbury Schenectady County Schenectady Schenectady	22 1640EST  22 1637EST  22 1650EST	0 0 0 1 0 0	3 0 5 0 4 0	Thunderstorm winds Lightning Tstm.winds (81)	30 NEW YORK,	Wes	stern							
Niskayuna Niskayuna Rensselaer County Buskirk	22 1655EST 22 1655EST 22 1705EST	0 0 0 0	4 0 2 0 0 0	Tstm.winds (60) Hail (0.75) Hail (0.75)	Allegany County Almond	05	1350 EST	downer	l trees	0 and t	0 oower 1	4 ines	0	High Winds
Albany County Green Island Watervliet Rensselaer County	22 1710EST 22 1711EST	0 0 0 0	0 0 4 0	Hail (0.75) Lightning	Whitesville Steuben County Hornell	The	re were w			er out	ages.			
Hemstreet Park Troy Troy Lansingburgh Berlin Poestenkill	22 1710EST 22 1712EST 22 1714EST 22 1715EST 22 1717EST 22 1730EST	0 0 0 0 0 0 0 3 0 0	4 0 0 4 0 5 0 0 0 4 4 4	Thunderstorm winds Hail (1.5) Lightning Thunderstorm winds Hail (0.75) Hail (2.0)	Seneca County Interlaken Yates County Penn Yan Ontario County Geneva	A la Yan	1640 EST arge maple . In Gene er lines	eva, a	fallen	tree	crushe	da ga	n	High Winds

																			JUNE 1
		CAL	PATH	XT.		). OF RSONS		AATED!			Τ	CAL	PATH	Ę		OF SONS	ESTIM/ DAM		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF I	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
NEW YO	RK,	Wester								NORTH	CAI	ROLINA	۱					1	·
Ontario County	122	Morning			0	2	2	0	Lightning	Sampson Co.	Lna	2040EST			0	n	0	٥	Hail (0.75)
Geneva	Аb	olt of light t and injur			a pi	ece of				Newton Grove			own do	wn and a		ile hor	-		ged near Olivia.
Chautauqua County Dunkirk	i i	1950 EST es and powe	er line	s were	0 down	Ó ed.	4	0	TSTM Winds (50)		home	near Spr	ing Lal nd crep	ke. Base	eball	size )	hail f	ell n	ver on a mobile ear Apex damagin eported over muc
Thompkins County Dryden Freeville Groton	25	1609 <b>E</b> ST			0	0	4	0	TSTM Winds	New Hanover Co. Castle Hayne	1	1337EST			0	0	0	0	Hail (0.75)
Cayuga Lake Orleans County	25 25				0	0	2	0	TSTM Winds TSTM Winds		Nick Co.	el size h	ail fe	ll over	ai sma	ll are	ea of	north	ern New Hanover
Albion Hiagara County	25	1710 EST			0	1	4	0	TSTM Winds(60)	Pitt Co.	80	1617EST			0	0	0	1	TSTM Winds
Niagara Falls Wilson									_	Hanrahan Pitt Co.	08	1630EST			0	0	4	0	TSTM Winds
Lockport Brie County	25	1715 EST			0	0	3	0	TSTM Winds	Ayden Southern	08	1632EST			0	0	0	0	TSTM Winds
Clarence Ctr. Monroe County	25	1730 EST			0	10	4	0	TSTM Winds	Green Co.	Ì								Hall (0.75)
Rochester Wayne County						÷					bart	n in Hanra	han. O	ne man i	was ir	njured	by fl	ying	the roof off a debris. Near
Newark Dswego County	25 25				0	0	3 · 4	0	Lightning TSTM Winds										o barns were royed. Trees wei
Hannibal												ned and ni							
Wayne County Williamson	25	1756 EST			0	0	4.	0	TSTM Winds	Randolph Co.	09	1335EST			0	0	0	0	Hail (1.75)
Sodus Point Portions of	25	1800 EST			0	0	4	0	TSTM Winds	Seagrove Davidson Co.	09	1430EST			0	0	0	0	TSTM Winds
Oswego & Onondaga Counties	1									Lexington Rowan Co.	09	1445EST			0	0	0	٥	TSTM Winds
Monroe County Fairport	25	1805 EST			n	0	4	0	TSTM Winds	Salisbury									
nondaga County	l				0	0	4	0	TSTM Winds			f ball siz Lexington				rove.	A few	tree	s were blown do
Liverpool West Syracuse	25 25	1830 EST 1845 EST			0	0	4	0	TSTM Winds	Harnett Co.	09	1406EST		, ,	0	0	0	6	Hail (0.75)
Wayne County Walworth	25	1847 EST			0	0	4	0	TSTM Winds	Lillington					0	0	6	7	Hail (2.75)
Onondaga County Manlius	25	1850 EST			0	0	4	0	TSTM Winds	Harnett Co. Dunn	09	1435EST							
Steuben County Erwins	25	2030 EST			0	0	4	0	TSTM Winds	Lee Co. Sanford	09	1436EST			0	0	0	?	Hail (1.00)
Fompkins County Trumansburg	25	2035 EST			D	0	4	0	TSTM Winds	Northern Lee Co.	09	1450EST			0	0	0	?	Hail (1.75)
W. Danby		2145 EST			0	0	4	0	TSTM Winds	Sampson Co. Newton Grove	09	1458EST			0	0	0	7	Hail (1.75)
	Str	ong winds	toppled	trees	and	snappe	d pov	er li	ies.	Sampson Co. Suttentown	09	1506EST			0	0	0	0	Funnel Cloud
		roof and					Man1:	us,		Southern Wayne Co.	60	1513EST			0	c	0	0	Hail (1.75)
	1		• .							Chatham Co. Siler City	09	1533EST			0	0	0	0	Punnel Cloud
		Albion, Ori a fallen t		ounty,	two	cars v	ere o	rushe		Wayne Co.	09	1545EST			a	0	0	0	Hail (1.75)
	In	Erwins, St	euben C	ountv.	the	wind W	nocke	ed 8		Mt. Olive Northern	09	1550EST			0	0	0	7	Hail (1.75)
	car	s against ft. tent	each ot	her an	d dam	aged t	hem.			Duplin Co. Moore Co.	09	1555EST			0	0	0	0	Funnel Cloud
	`							ono		Aberdeen Duplin Co.	09	1600EST			D	0	6	0	TSTM Winds TSTM Winds
	top	eral small pled over.								Moore Co. Vass	09	1600EST			0	ó	0	ŏ	TSTM Winds
	į bro	ken.								Lee Co.	09	1610EST			0	0	0	0	TSTM Winds
										Lemon Springs Wayne Co.	09	1616EST			0	0	5	?	Hail (2.75)
										Seven Springs Cumberland Co.	09	1618EST			0	0	0	0	TSTM Winds (60
										Pope AFB Hoke Co.	09	1625EST			0	0	0	0	Funnel Cloud
		•								Rockfish Lenoir Co.	09	1625EST			0	0	0	?	Hail (1.75)
31 NORTH CAR	OL	NA								Cumberland Co. Spring Lake	09	1630EST			0	1	5	0	TSTM Winds Funnel Cloud
-										Lenoir Co. E of Kinston	00	1640EST			0	0	?	?	Hail (2.75)
Harnett Co. Olivia	02	1625EST			0	0	0	0	Hail (1.75)	Hoke Co. S of Raeford	09	1643EST			0	0	0	0	Funnel Cloud
Cumberland Co. Spring Lake	02	1643EST			0	0	0	0	Hail (1.00)	Cumberland Co.	09	16458ST			0	0	. 0	O	TSTM Winda
Cumberland Co. N of Spring Lake	02	1700EST			0	0	4	0	TSTM Winds Hail (1.00)	Hope Mills									n
Cumberland Co. Cumberland Co. Simmons Army	02 02	1720EST 1740EST		٠	0	0	0	0	Hail (1.75) TSTM Winds Hail (1.50)		eas hai	t producit l fell in	ng exte Dunn,	nstve b Seven S	ail a Spring	nd sou s,and	e win Kinst	d dam on. G	andhills and mov age. Baseball si olf ball size he
Air Field Alamance Co.	02	1757EST			0	0	0	0	Hail (1.75)		to	crops in t	the are	a was e	stima	ted ov	er \$5	0 mil	nties. Hail dama lion. Property
Orange Co. Chapel Hill	02	1803EST			ō	å	ò	0	Hail (1.00)		Thu		winds	blew do	wn tr	ees, a	ome f	a]lin	g on cars and
Wake Co.	02	1853EST			0	0	4	5	Hail (2.50)										ke in Cumberland A man was injur
Apex Chatham Co.	02	1855EST			0	0	0	0	Hail (1.75)		whe		ofan	auto p	arts	store	was b	lown	off. In Duplin C
Silk Hope Wake Co.	02	1908EST			0	0	0	0	Hail (1.75)	Southwest	09	1445EST			0	0	0	0	TSTM Winds
Fuquay Varina Chatham Co.	02	1915EST		•	0	0	0	0	Hail (1.00)	Cabarrus Co.	ļ					-		-	
Pittsboro Johnston Co.	02	1950EST			a	· a	0	0	Hail (1.75)	Cabarrus Co. S of Concord	09	1445EST			0	0	0	0	Funnel Cloud
Benson						-		_		Cabarrus Co. Concord	09	1501EST			0	0	0	0	TSTM Winds
Harnett Co.	02	2025EST			0	0	0	0	TSTM Winds										

						JUNE 1986
PLACE	ARD ARD 1 OF PATH ES) PATH RDS)	KILLED AO OF SHORT OF	CHARACTER OF STORM	PLACE	TIME - LOCAL STANDARD LENGTH OF PATH (WILES) WITH OF PATH (YAROS) KILLED MURED SMAO	ESTIMATED¹ DAMAGE  CHARACTER OF STORM
NORTH O	CAROLINA		1.5	NORTH	CAROLINA	
140,777	-Cuaring	•	· 1	1	CANOLINA	·
Northern	09 1505EST	0 0 0 0	TSTM Winds	Caldwell Co.	18 1702EST 0 0	0 0 TSTM Winds
Stanley Co. Montgomery Co.	09 1530EST	0 0 0 0	mams	S of Lengir Caston Co.	18 1850EST 0 0	0 0 TSTM Winds
, Mt. Cilead	09 1530EST	0 0 0 0	TSTM Winds	Belmont	16 1650E51 U U	0 0 TSTM Winds Hail (1.00)
Union Co.	09 1537EST	0 0 0	Funnel Cloud	Mecklenburg Co.	18 1950EST 0 0	0 0 Hail (0.75)
SW of Monroe	Thunderstorm winds uprooted southwest Cabarrus Co. Trees damaged in Mt. Cileud and in	were downed and small	l buildings	Charlotte	Nickel size hail fell in Henderson at Charlotte. A few trees were blown down Belmont.	
	were reported in Monroe and		Tumor orough			
Montgomery Co. Uwharrie	09 1539EST 0.3 75	0 0 0 0 1	ornado (F1)	Nash Co. Spring Hope	19 1730EST 0 0	0 0 Hail (0.75)
	A small tornado touched down	to a wooded area are	n Hubana a The		Nickel size hail was reported in Spri	ng Hope.
	tornado moved northeast for a	about a quarter of a m	ille.	Granville Co.	20 1600EST 0 0	4 0 TSTM Winds
	Thunderstorm winds also blew	w down trees near Ophi	r.	Cranville Nash Co.	20 1620EST . 0 0	4 0 TSTM Winds
Sampson Co.	09 1700EST	0 0 6 5	TSTM Winds	Spring Hope	20 1820ES1 . 0 0	4 0 7578 Winds Hail (1.75)
Spivey's Corner			Hail (1.75)	Wake Co. N of	20 1700EST 0 0	0 0 TSTM Winds
Craven Co.	09 1713EST	0 0 5 0	Hail (1.75)	Rolesville Wake Co.	20 1800EST 0 1	0 0 Lightning
Duplin Co.	09 1722EST		TSTM Winds	Raleigh	-	TSTM Winds
Faison	00 1726505		Hall (1.75)	Wake Co.	20 1850EST 0 0	4 0 TSTM Winds
Craven Co. New Bern	09 1726EST	0 0 ? ?	Hail (3.5)	Carner	}	
Sampson Co.	09 1730EST (	0 0 5 0	TSTM Winds		Trees were blown over on cars and bui	
Clinton Hyde Co.	09 1845EST	0 0 0 0	POTE Minds (50)	I .	damage and golf ball size hall was re	ported in Spring Hope. In
Ocracoke ts.		0 0 0 0	TSTM Winds (70)	1	Wake county large hail fell and a bar food restaurant worker in Raleigh was	injured by lightning while
Jones Co.	09 1845EST	0 0 0 0	Hail (0.75)	,	serving food from the drive-in window	
Westend Crossroada	}		1	Catawba Co.	20 1806EST 0 0	4 0 Hail (1.75)
Onslow Co.	09 1850EST (	0 0 0 0	TSTM Winds	Claremont		4 0 Hail (1.75)
Richlands Onslow Co.	09 1900EST (	0 0 0 0		Iredell Co.	20 1900EST 0 0	0 0 Hail (1.00)
Belgrade		· · · · · · · · · · · · · · · · · · ·	TSTM Winds	Mooresville	ĺ	• ,
Carteret Co.	09 1938EST C	0 0 0 0	TSTM Winds		Roofs were damaged by golf ball size h	
Newport			}	1	size of a quarter fell in Mooresville	•
	Sampson, Craven, Duplin, and buseball to golf ball size at moved east through the area. briefly near New Bern. Crop caillion. Buildings were damag Belgrade. A mobile home was damage was near \$1 million.	nd damaging winds as Hail larger than a b damage was estimated ged in Clinton, Spive	thunderstorms aseball fell near \$11 y's Corner, and	Northeast Lincoln Co. Guilford Co.	21 1628EST 0 0 21 1635EST 0 0 A house boat and docks were damaged n were taken down and the roof of an ol area.	
Onslow Co. Richlands		0 2 6 5	Tornado (F1)	Henderson Co.	21 est. 1.5 1760 0 0	? O TSTM Winds
viculands				1 S Fletcher	1730EST	- 70111 #11100
Dualle Ce	A tornado touched down four a to the east-northeast it desi people Trees were uprooted, and two houses were damaged.	troyèd a mobile home, a construction trail	injuring two		Several trees were uprooted or snapped minor roof damage was done to some fal just south and southeast of Fletcher. survey of the damage conducted by a me revealed the event to be a microburst	m outbuildings An aerial eteorologist that left a
Duplin Co. Cedar Fork				,	diverging pattern in the damage along southwest to north-northeast path, 1.5 and approximately 1 mile wide.	
	A powerful isolated thunders and blew trees over on houses				- 1500000	5 A matter :
N> C-			Ì	Scotland Co. Laurinburg	22 1530EST 0 0	5 0 TSTM Winds
Nash Co. Mt., Pleasant	17 1540EST (		TSTM Winds Hail (1.75)			4
i				[	Thirty mobile homes from sales lots w thunderstorm winds.	ere damaged or destroyed by
Bertie Co. 5 E Aulander	17 1553EST (	0 0 0 0	Hail (1.75)	1		
Chowan Co.	17 1635EST (	0 0 0 0	Hail (0.75)	Western Lincoln Co.	22 1748EST 0 0	0 0 TSTM Winds Hail (0.75)
Rockyhock Bertie Co.	17 1740EST (	0 0 0 0	Funnel Cloud			
Bertle Co. Aulander	11 1140831 (		runnet Cloud		Trees were blown down and large hail	was reported in western
Chowan Co.	17 1849EST · (	0 0 0 0	TSTM Winds (65)		Lincoln Co.	
near Edenton Bertie Co.	17 1850EST (	0 0 0 0	Funnel Cloud	Buncombe Co.	23 1830EST 0 0	0 0 TSTM Winds
Colerain				S of Asheville	<i>'</i>	
	Trees were blown down and go Pleasant. Funnel clouds were Gust to 65 knots was reported	reported in Aulander		Rockingham Co.	23 2130EST 0 0  Trees were blown down near Stoneville was reported three miles south of the	
Wake Co.	17 1740EST 0	0 0 0 0	TSTM Winds	Transylvania Co.	24 1515EST 0 0	0 Q Hail (0.75)
Wendell			. 1	2 N Brevard	24 1550EST 0 0	0 Q Hail (0.75)
Wake Co.	17 2030EST 0	0 0 0 0	Hail (0.75)	Buncombe Co.		
Knightdale	Trees were blown down near We moved into Wake County produc			Buncombe Co.	Hail up to quarter size was reported fell in southern Buncombe Co.	near Brevard. Dime size hail  O Ulightning
Į.	Knightdale.			Asheville	l.	
Stanley Co.	17 1730EST 0	0 0 4 0	ISTM Winds	Transylvania Co.	25 1415EST 0 0	0 0 Lightning
	Trees were damaged and three		1	Little River Transylvania Co.	25 1500EST 0 0	0 Q Hail (0.75)
1	Trees were namaked min filles	PRITE NUMBER MESE D	. Albemdile	1	•	
Henderson Co. Horse Shoe	18 1345EST C	0 0 0 0	Hail (0.75)		Lightning produced a fire that heavil building in Asheville. A 19 year old	
Polk Co.	18 1535EST C	0 0 0 0	Hail (0.75)	ļ	while closing a window. Dime size hai	
Columbus	19 1600ECT 0				Transylvania Co.	
Caldwell Co. Collins	18 1600EST 0	0 0 0 0	ISTM Winds		•	
Springs	L		.	l		
				<del></del>		

																				JUNE 198
			₹5	РАТН	Ę		OF SONS	ESTIM.					CAL	PATH	Į.		. OF		ATED!	
PLACE		DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATÉ	TIME - LOCAL STANDARD	LENGTH OF F	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
NORTH	C.	ΔRΩ	LINA				- L I				NORTH	DAK	OTA	·	· ·				•	
Moore Có. Cameron		6 16		•		0	o	0	0	Hail (0.75)	Morton County, 7NE Flasher	12	_							Funnel Cloud
Cancion	N.	ickel	size ha	ail fe	11 in 0	Camero	n.				Kidder County,	12	0920CST- 0930CST	0.5	50	0	I	5	0	Tornado (F1)
Caston Co. Gastonia	2	6 15	48EST			0	0	0	0	Hail (1.50)	Luppen		ornado tra							h the town of ged a dairy farm
Caston Co. Lowell	2	6 16	17EST			0	0	0	0	Hail (1.00)		and		n irri	gation	unit.	Αw			ured when a tree
Caston Co. Cramerton	2	6 16	37EST			. 0	0	0	0	TSTM Winds Hail (1.75)	Stutsman County,	12	1000CST			0	0	4	0	TSTM Wind (54)
Stokes Co. Pinnacle	20	6 16	45EST			0	0	0	0	TSTM Winds	Jamestown									Lightning own airport. ed power outages
Caston Co. Belmont	2	6 16	55EST			0	0	4	Q	TSTM Winds Hail (1.50)		in	and around	the C	ity of	James	town.			people were
Rockingham Co. Mecklenburg Co.	26		DOEST			0 1	0	0	0	TSTM Winds Lightning	I com County	12	1050CST	101 U	p to on	e nou	0	0	0	N-41 (0.25)
Lake Norman Rockingham Co.	26		ODEST			0	0	5	a	Hail (1.00) TSTM Winds	Logan County, 2NW Lehr	12	1030031			U	٠	U	U	Hail (0.75)
near Eden Caswell Co.	20	3 17	OOEST			0	0	4	0	TSTM Winds	McIntosh County, Wishek	12	1130CST			0	0	0	0	Hail (0.75)
Iredell Co. Mooresville	20	3 17	DZEST			0	0	0	0	TSTM Winds Hail (0.75)			•						•	
Porsyth Co. Walkertown	20	8 17	07EST			0	0	0	0	TSTM Winds	Griggs County: Binford Cooperstown	18 18	1640CST . 1650CST			0	0	5 ?	5 ?	Hail (1.75) Hail (1.50)
Guilford Co. Greensboro	21	5 17	20EST			1	0	0	0	TSTM Winds	Binford		1700CST			ō	0	?	?	Hail (2.00)
Alamance Co. Burlington Graham	26	5 17	42EST			0	0	0	0	TSTM Winds		whi	e with ha	il cov	er. Th	e hai	1 dam	age oc		d many fields were on crops aiready
Person Co. Roxboro	20	5 17	18EST			0	0	0	0	TSTM Winds	Steele County:	wear	cened by p	LOTORE	ea noc	ury w	eache			
Randolph Co. Level Cross	26		15EST			0	0	0	0	TSTM Winds	15SE Cooperstown 6SSW Finley	18 18	1715CST 1715CST	Short 1	5-15 150	0	0	0	0	Tornado (F0) Tornado (F1)
Mecklenburg Co. Mint Hill	24		18EST			0	0	0	0	Hail (1.00)	7SE Finley 7SE Finley	18 18	1733CST 1733CST		75	0	0	4 5	0	Tornado (F1) Hail (3.00)
Randolph Co. near Asheboro	20		55EST			0	0	0	0	TSTM Winds	355W Grand Forks	18	1755CST	Short	5-15		ō	ő	ő	Tornado (FO)
Randolph Co. Seagrove	20		15EST			0	0	0	0	Hail (0.75) overed central										touchdown 15 mile 715 CST, a cornado
	k Qı al	n a po illed uarter rea. T ars. N rees n	ntoon l when a to go! here we ineteen	boat o tree lf bal ere ma n mobi en. A	n Lake fell or l size ny repo le home	Norma him hail orts o es wer home	n. An while was re f tree e dama	eight he was ported s down ged by	year ridi i over n, som	lightning while old boy was mg his bleyele. much of the e on houses and s and falling Caswell Co.		move pati 173; sout buil 3 in Air	ed one mil through CST, the heast of dings on the hail o	e towa trees Steel Finley farmst aused ther o	rd the and des e Count . This eads an extensi	east- troye y She torn d sca ve da sigh	south d out riff ado d ttere mage	east. buildi report amaged d farm to cro	This ngs on ed a t trees equip	ff's Deputy as it tornado cut a farmsteads. At ornado 7 miles , destroyed out- ment. In addition t 1755 CST, an miles southwest of
Southern Wayne Co.	24		10EST			0	0	0	0	TSTM Winds			1730CST	[ GOIG	en Lake		•	,	0	Lichtning
Craven Co. New Bern	2		30EST			0	0	4	0	Lightning	Grand Forks County, Grand Forks			uale a '	TV amto		u and ma	4 vad ta		Lightning oof, damaging the
Lee Co. near Sanford	26		10EST			0 -	0	0	0	TSTM Winds			rior ceil				ino mo	vea to	, che i	bor, uamaging the
Southern Wayne Co. Carteret Co. 8 W Morehead	21		15est 10est			0	0	0	0	TSTM Winds TSTM Winds	Traill County: 8E Clifford 2S Blanchard	18 18	1800CST 1830CST			0	0	5 5	?	TSTM Wind
City Southwest Harnett Co.	20	8 21	10EST			0	0	0	0	TSTM Winds	25 Blanchard	Str	ong thunde			occur	red o	ver so	utherr	Traill County.
	ii di 1	nto th amage ightni	e Sandi was to ng dami	hills trees aged t	and Sou	itheas ower l ile ho	tern N ines. mes in	orth (	Caroli Pire 8	derstorms moved na. Most wind tarted by Many trees were		quoi 2 m equ	nset hut 8 Lles south	miles of Bl ds and	east o anchard power	f Cli . In poles	fford addi were	, and tion, destr	blew d	destroyed a own a grain bin torage bins, barns Most of the
											Burke County, 5NE McGregor	1	1530CST			0	0	5		TSTM Wind
as MORTH. B.A.	W 6											mov win and hea est	ed a hang dmills, da blew down vy damage	ar 50 i amaged i hundi Peak	eet, kr barns a eds of wind a	nocked and ou large gusts	d down utbuil e tree from	high ldings es. E these	-line , dest ight f macro	w out windows, poles and coyed tool sheds, armsteads had ourst winds were sted about 20
32 NORTH DA	_	1 <b>A</b> >1-				0	0	7	7	Drought,	Hettinger County, 8SE New England		1815CST	•		0	0	0	0	Hail (0.75)
NDZA11	1 1	9 It was lorth I	akota.	The	re were	13 to	22 d	ays wi	th te	Extreme Heat r station across mperatures of 90	Sheridan County: 11SE Kief	20	2130CST			0	ą	4	4	Hail (2.75)
	N 2	of the lorth I l7th.	se days Jakota,	were recor	100 de rded th d Washb	grees e hig	or mo	re. E empera	reien ture,	sections, 7 to 10 ( , in south-central 108 degrees on the emperatures of 107	lise Kief	dan	ages on t	ved on wo fare rned ca	the grous. Alo	ong i	ts pai	h the	torna throu	Tornado (F1)  and caused do destroyed a gh the air, and
	á	nd the lay of howers	west the mo and a	and conth.	entral Otherw s were	section de the about	ons ha ne rai half	i subs nfall the mo	tanti consi nthly	rms in the east, al rain on the last sted of small normal. In	Steele County, Finley	tor 20	nado. In 2330CST	addit	lon, bas	sebal: 0	1-size 0.	ed hai	l leve O	ouched by the led crops.  TSTM Wind  Lightning
	7	his ho	t dry	weath erable	er reta e. Dam	rded 1	he gr	owth o	f crop	the moisture. ps, leaving them in the tens of		Lig	htning st	ruck th	e top o	of a l	build:	lng kn	ocking	grain bin. bricks loose. a flying brick.
	1	he hot	dry w	eathei	r also	record	is high	1 cons	umptio	on of water and						-				

	DCAL PATH ATH	NO. PERS		TIMATED DAMAGE	)†				AL	РАТН	æ		OF SONS	ESTIMA DAM			
PLACE	DATE TIME - LOCAL STANDARD LENGTH OF PATH WIDTH OF PATH	(YARDS) KILLED	INJURED	CROPS		CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	1	RACTER OF TORM
NORTH	<del></del>					 ]	OKLAHO	МΔ	ł	l		اـــــــا				ш	
	21 1645CST	0	0	• •	11-4	1 (2 00)	Payne County,	02	1332CST			0	0	?	?	Hail (1	75)
Benson County, 8SW Esmond	21 1043CS1	U	U	0 0	Hal	1 (2.00)	Stillwater Johnston County,	02	1335CST			0	0		•	Hail (0	
Wells County, 7NE Fessenden	21 1700CST	. 0	0	0 0	Hai	1 (0.75)	Mill Creek Osage County,	02	1335CST			0	0	?	?	Hail (0	
Foster County,	21 1745CST	0 .	0	0 0	Hai	1 (0.75)	Foraker Osage County,	02	1340CST		,	0	0	?	?	Hail (0	.75)
Carrington							10 W Copan Oklahoma County,	02	1340CST			0	0	?	?	Hail (1	. 75)
ickey County: Ellendale 2S Oakes	24 1840CST 24 1850CST	0		0 0		1 (1.75)	Edmond Oklahoma County, Edmond	02	1340CST			0	0	?	?	TSTM Win	nd
25 Vakes	24 1030051	U	J	0 0	Hai	1 (0.75)	Canadian County, Mustang	02	1343CST			0	0	?	?	Hail (0	.75)
							Oklahoma County, Newalla	02	1348CST			0	0	?	?	Hail (0	.75)
							Cleveland County, Moore	02	1355CST			0	0	?	?	Hail (1	
							Washington County, Bartlesville	02	1400CST			0	0	?	?	Hail (0	
33 OHIO							Payne County, Stillwater	02	1400CST			0	0	?	?	Hail (3	
Athens County	21 1640 EST	0	0 4	0	Thu	nderstorm Wind	Cleveland County, 3 NE Norman	02	1410CST			0	0	?	?	Rail (1	
Athens County	21 1640 EST	0	0 4	0	-	htning	Oklahoma County, 4 S Choctaw Lincoln County,	02	1414CST 1415CST			n	0	?	?	Hail (0	
	Thunderstorm winds blew Lightning from the same						Meeker McCurtain County,	02	1420CST			0	0 .	?	,	Hail (	
	did \$20,000 in damage.						S McCurtain Co Lincoln County,	02	1430CST			0	0	?	. ?	Hail (	
Bulter County	25 1700 EST	. 0	0 4			nderstorm Wind	Stroud Pottawatomie County,	02	1430CST			0	D	?	?	Hail (C	
	Thunderstorm winds blew and Trenton. A truck w						McLoud Cleveland County,	02	1435CST			0	0	?	?	Hail (	
luvahoga County	Middletown. 25 1932 EST	0	0 5	0	Thu	nderstorm Wind	NE Norman Oklahoma County,	02	1444CST			0	٥	?	?	Hail (0	).75)
Cuyahoga County	A thunderstorm produced	-					Nicoma Park Oklahoma County,	02	1444CST			0	0	. ?	?	Hail (0	.75)
	Numerous trees and power damage was done in Pa	er lines v	rere blo	wn down	and s	ome structural	near Newalla Lincoln County,	02	1445CST			0	0	?	?	Hail (C	7.75)
	Heights and North Royal post office, many large	ton. The	roof w	as blown	n off	the airport	3 E Chandler Creek County, near Depew	02	1455CST			0	0	?	?	Hail (1	.75)
	windows were blown out						Oklahoma County, Harrah	02	1458CST			0	0	?	?	Hail (0	).75)
Huron County Huron County	25 2117 EST 25 2135 EST	0	0 4	0		Inderstorm Wind Inderstorm Wind	Pottawatomie County, 3 N Asher	02	1500CST			0	0	?	?	Hail (1	.00)
	Thunderstorm winds blev	down tre	es and	power 1	ines j	ust southeast	Cleveland County, S Norman	02	1500CST			0	0	?	?	Hail (1	.00)
	of Bellevue. The same lines, blew in windows	and damag	ter blew ged roof	down m	ore fr vana,	ees and power Olena and	Atoka County, 3 WNW Farris	02	1500CST			0	0	?	?	Hail (0	7.75)
Ì	North Fairfield.						Johnston County, 10 NW Tishomingo	02	1510CST			0	0	?	?	Hail (C	.88)
Entire State	Entire Month	0	0 0	С	Dro	ught	Oklahoma County, 8 E Midwest City	02	1513CST			D	ø	?	?	Hail (1	
	Drought conditions cont Crops planted in the sp	ring were	barely	survivi	ing.	Some cities	Okmulgee County, 2 W Henryetta	02	1530CST			0	0	?	?	Hail (1	
	and towns had water rat streams were at near re	cord or r					Mayes County, Locust Grove Oklahoma County,	02	1530CST 1533CST			0	0	?	?	Hail (C	
	levels fell substantial	•					5 SE Choctaw Pontotoc County,	02	1533CS1		•	n	0	?	?	Hail (C	
	Average precipitation f which translates into e 105 years of record, Ju	ighty-fiv	e hundr	edths of	f an i	nch. Based on	Francis Marshall County,	02	1600CST			0	0	,	?	Hail (C	
	as a whole. The previo averaged one and sixty-	us driest	June va	as in 19	936 who		Little City Stephens County,	02	1600CST			0	0 .	?	?	Hail (i	-
	Northwest Ohio was the	-				e average	6 E Loco Bryan County,	02	1605CST			0	0	?	?	Hail (0	
`	precipitation for that inch. This was only 13	area was percent	only fit of norma	fty-one al. Cen	hundre ntral (	edths of an Ohio received	2 N Durant Pontotoc County,	02	1615CST			0	0	?	?	Hail (	(88.0
	the highest average pre hundredths inches. Thi	cipitatio	n with a	one and	twenty	y-six	3.5 N Stonewall Coal County, 1 W Tupelo	02	1615CST			0	0	?	?	Hail (	1.75)
	•						Pontotoc County, 7 S Fittstown	02	1625CST			0	0	?	?	Hail (	0.75)
		•		•			Carter County, Dickson	02	1630CST			0	0	?	?	Hail (0	).75)
							Johnston County Pontotoc	02	1630CST			0	0	?	?	Hail (0	).75)
							Jefferson County, Addington	02	1925CST			0	0	?	?	Hail (C	.88)
34 OKLAHOMA Noble County, 1 N Ceres	02 1209CST 0.5 50	iched down	0 briefl	? ?	Hai:	nado (FO) 1 (1.75) es and a		the loc nea	ttered thu state pro ations. H r Stillwat eral locat	ducing lail a er. W	hail ( little inds oi	over	the s a 3 i o 70	ize of nch di mph al	golf ameter	balls at size fe urred at	many 11
	fence. A barn suffered Golfball size hail cove	some dam red groun	age est d about	nated a	at \$300 tes pr	00. ior to the	Canadian County, 3 N Union City	15	1215CST	1.0	20	0	0	0	0	Tornado	(F0)
	tornado.						Murray County, 7 W Davis	15	1750CST			0	0	3	?	TSTM Wi	Lnd
Choctaw County, Boswell	02 1310CST ·	0	0	? ?	Hai:	1 (0.88)		Ar	ope-type t	ornado	touche	d dow	n ius	t nort	hofi	Jnion Cit	bas v
Choctaw County, 2 N Hugo	02 1315CST	0	0	? ?	Hai:	1 (1.75)		nov	ed east-no: lapsing th	rtheast	for al	out a	mile	doing	litt	le damage	. A
Coal County,	02 1321CST	.0	0	? ?	Hail	1 (0.75)	1		several o			-			- '		

TIME 1088

													3000
PLACE	DATE TIME - LOCAL STANDARD LENGTH OF PATH (MILES)		CROPS SDAY	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSO	NS	CROPS CROPS	CHARACTER OF STORM
OKLAHO	<del></del>	<del> </del>		 	OKLAH	Ь	<u> </u>	L		<b>.</b>			
Oklahoma County, SE Oklahoma City	16 1313CST	. 0 0 ?	?	Hail (0.75)	Ottawa County, Miami	29	1920CST			0	U	4 ?	TSTM Wind (56)
Oklahoma County, SE Oklahoma City Grady County,	16 1315CST 16 1515CST	0 0 ?	?	Hail (0.75)									the roof off of . Damage was
Tabler						esti	mated at	\$10,000	).				•
	Thunderstorms formed of producing hail up to t reported.				Pottawatomie County, Shawnee	30	1500CST			1	0	0 0	Heat
Washita County, Cordell	25 aftn.	2 0 0	0	Heat			year old s in 100 o						lking 2 1/2
·	A man and his wife suf	ffered the effects of	hypert	hermia on a	Texas County,	30	1700CST			٥	۷	, ,	TSTM Wind
	camping trip. The man in a hospital. HEAT F	7770 M800.	died	days later	Tyrone Beaver County,	30	1742CST			0	n	? ?	TSTM Wind
Jackson County,	25 2020CST	0 0 ?	?	Hail (1.00)	Gate Alfalfa County,	30	1900CST			0	0	? ?	TSTM Wind
Altus				` '	2 W Burlington Alfalfa County,	30	1915CST			0	0	? ?	TSTM Wind (52)
	A thunderstorm produce damage report was rece		ne-inch	hail. No	6 N Burlington Woods County,	30	1920CST			0	0	? ?	Hail (1.00)
		•			4 NW Alva Ellis County,	30	1920CST			0	0	? ?	TSTM Wind
Payne County,	26 1545CST	0 0 4	?	TSTM Wind (70)	9 WNW Gage Harper County, Laverne	30	1930CST			0	0	? ?	Hail (0.75)
Stillwater Sequoyah County, Sallisaw	26 1610CST	0 6 5	?	TSTM Wind	Alfalfa County, Amorita	30	1930CST			0.	0	? ?	Hail (1.00)
Payne County, Cushing	26 1751CST	0 0 ?	?	Hail (1.75)	Woodward County, 4 SW Freedom	30	1955CST			0	0	? ?	Hail (1.00)
Cherokee County, 7 NE Tahlequah	26 1805CST	0 0 3	?	TSTM Wind	Woodward County, 15 N Mooreland	30	2025CST	•		0	0	? ?	Hail (0.75)
Payne County, 1 NE Cushing	26 1900CST 1.0 4	0 0 4	?	Tornado (F1)		sect	ions of t	he stai	e prod	ucing s	rrong	winds, o	d northwest ne-inch hail, park just north
	causing \$45,000 damage at a race track near S the sign was \$100,000. home northeast of Tahl north and 1/2 mile eas northwest for about on houses and barns and t estimated at \$25,000.	Sallisaw, injuring 6 p. Winds caused \$3,00 equal. A small torns of Cushing and move mile. The tornado	eople. O damag ado set ed towa damage	Damage to te to a mobile down l mile and the d several			ints of 4	to 5 in	nches c	aused a	tempo	rary flo	oding problem in
Wagoner County,	27 1555CST	0 0 ?	?	Hail (0.75)									
1 E Coweta Noble County,	27 1630CST	0 0 ?	?	Hail (1.00)	35 OREGON								
7 SW Perry Lincoln County,	27 1638CST	0 0 ?	?	TSTM Wind	ORZO11 Baker, Union, and	26	1600- 2100PST			0	0	? ?	Severe Thunderstorm Hail (0.75)
5 NNW Wellston Logan County,	27 1745CST	0 0 ?	?	Hail (1.00)	Wallowa Counties								ross northeast y heavy rain or
3 S Orlando Kingfisher County, 12 NE Kingfisher	27 2030CST	0 0 ?	?	Flash Flooding		hail	were rece	ived. erpasa	The co	mmuniti ng caus	es of ed by	Baker an heavy ra	d Enterprise had in and three- r reported 2.00
	Widely scattered thund rain, hail up to I inc thunderstorm produced which caused rapid run roadways northeast of	ch size, and damaging 4 to 6 inches of rai noff washing out a br	winds. In in a	One few hours		inche	es of rain erine Cree	at Bal	ker. S	tate Hi	ghway	203 had	a washout along
Murray County,	28 1630CST	0 0 4	?	TSTM Wind									
Sulpher Canadian County,	28 1730CST	0 0 4	?	TSTM Wind									
4 NW Yukon Oklahoma County, NW Oklahoma City	28 1750CST	0 0 3	?	TSTM Wind (54)	36 PENNSYLVA	NIA.	, Easte	rn					
Oklahoma County, W Edmond	28 1800CST	0 0 4	?	TSTM Wind (65)	Lebanon County:								
Oklahoma County, W Edmond	28 1805CST	0 0 ?	?	Hail (1.00)	1E Annville 1N Annville	1	1520 EST 1525 EST			ō	0 :	3 ?	TSTM Wind TSTM Wind
Logan County, 4 NNE Waterloo	28 1815CST	0 0 ?		Hail (0.75) TSTM Wind	Cornwall Myerstown	1	1533 EST 1538 EST			0	0 3	3 ?	TSTM Wind TSTM Wind
Mayes County, Pryor	28 2020CST	0 0 ?		TSTM Wind (52)		Anny:	ille, a la	rge tre	e just	north	of Ant	wille, r	ees just east of umerous trees at
Logan and Oklahoma Counties Muskogee County,	28 2030CST 28 2040CST	0 0 ?		Flash Flooding TSTM Wind	Language County	Corn	vall, and	trees a	and lar	ge limb	s at N	iyerstown	
Fort Gibson	20 2040001		•		Lancaster County: Ephrata Akrou		1549 EST 1549 EST				0 2		TSTM Wind TSTM Wind
	Scattered thunderstorm and very heavy rains.	The strong winds to	ok roof	s off of houses,	may or	Thune	ierstorm w						at Ephrata and
	and damaged houses Sulpher, northern Okla	s, barns, and busines shoma City and Pryor.	ses in Four	Edmond, to five inches	Borks Court	power	lines at	AKTON.	•				
	of rain in a few hours Logan county and in th	s caused 3 feet deep	water a	cross southern	Berks County, 1E Birdsboro	Thund		Birdsb	oro and	ught do Monoca	cy Sta	ge tree	TSTM Wind (52+) limbs and uprooted the wind gusts were
				]			/						

	<del>                                     </del>		<del></del>
PLACE	STANDARD  STANDARD  STANDARD  CROPS   PLACE	TARE - LOCAL STANDARD  LENGTH OF PATH (WRLES) WIDTH OF PATH (WRLES) WIDTH OF PATH (WRLES) CROPS RTY CROPS	
	<del></del>		
PENNSY	LVANIA, Eastern	38 SOUTH CAR	OLINA
Chester County: 1S Exton West Chester	1 1618 EST 1 0 3 0 TSTM Wind 1 1620 EST 0 0 3 0 TSTM Wind (52)	York County between Clover am Bowling Green	03 1310EST 0 0 ? ? TSIM Wind 30" pine tree blown over.
	Thunderstorm wind gusts brought down trees in West Chester, and were estimated at 55 to 60 mph. Thunderstorm wind gusts near Exton blew a very large limb out of the top of a very large tree.	Chester Co. 5 E Richburg	03 1345EST 0 0 ? ? Hail(1.0)
1	The limb came down on a passing automobile, killing the woman driver. F23V	Lexington Co. Irmo/Hollow Creek	03 1445EST 0 0 ? ? TSIM Wind Trees down.
Delaware County, Aston	1 1630 EST 0 0 3 ? TSTM Wind Thunderstorm wind gusts downed at least 10 trees.	Georgetown Co. 3E Outland 1N Georgetown	03 1505EST 0 0 ? ? Hail(1.75) 03 1520EST 0 0 ? ? Hail (1.75)
Bucks County, Northampton	1 2115 EST 0 0 5 0 Lightning	Horry Co. Myrtle Beach	03 1530EST 0 0 ? ? Hail(0.75)
	Lightning struck a house, causing a fire that burned out most of the interior of the house.	Richland Co. Columbia	08 1235EST 0 0 ? ? Hail (.75) Hail reported at Bull and Harden Streets.
Lancaster County: Lancaster Strasburg	7 1418 EST 0 0 3 0 TSTM Wind 7 1505 EST 0 0 3 0 TSTM Wind Thunderstorms brought brief heavy rain and wind gusts that	lee Co. 85 Bishopville	08 1345EST 0 1 4 2 TSIM Wind Two mobile homes damaged and roofs blown off two buildings in Lee County. Also, a storage building destroyed. One person slightly injured.
	downed trees and power lines at a shopping center in the North portion of Lancaster. Some people were trapped in their automobile by a fallen tree. Thunderstorm wind gusts brought large trees down in Strasburg.	Calhoun Co. 7W St. Matthews St. Matthews	08 1350EST 0 0 0 4 Hail (0.75) Hail damaged cotton.  08 1350EST 0 0 3 0 Hail (1.00)
Perry County, 5E Newport	7 1535 EST 0 0 3 ? TSTM Wind Thunderstorm wind gusts downed large limbs and a tree between Newport and Duncannon.	Fairfield Co. 10 E Winnsboro 10 E Winnsboro	08 1445EST 0 0 ? ? Lightning 08 1500EST 0 0 ? ? Hail (0.75)
Cumherland County, 3E Carlisle	7 1601 EST 0 0 3 ? TSTM Wind	Newberry Co. Prosperity	08 1500EST 0 0 ? ? Hail(1.0)
35 Carriste	Thunderstorm wind gusts brought trees down across Bernheisel Road in Middlesex Township between Carlisle and Mechanicsburg. Heavy rain also accompanied the thunderstorm.	Horry Co. Bakers Chapel	08 1530EST 0 0 4 5 Hail (0.75) Hail covered a 10 mile radius of Bakers Chapel from Bayboro to Jordanville. Considerable tobacco acreage was destroyed.
Carbon County, 5N Palmerton	16 1620 EST 0 0 ? ? TSTN Wind (57)  A thunderstorm north of Palmerton produced dime size hail and wind guste estimated to have been in excess of 60 to 65 mph.	Orangeburg Co. Santee Elloree	08 1700EST 0 0 3 0 TSIM Wind 08 1630EST 0 0 3 0 TSIM Wind Several trees blown down.
Lancester County, Willow Street	16 1830 EST 0 1 0 0 Lightning Lightning struck a light post and traveled down it, eventually	Greenville Co. Greenville	08 1717EST 0 0 2 0 Lightning Two homes set afire by lightning - power off to 300 customers.
	hitting a man walking nearby. The man was critically injured.	Dorchester Co. Summerville	9 1400EST 0 0 ? ? TSIM Wind A few trees blown down. Numerous reports of small hail.
		Greenwood County Breezewood	09 1515EST 0 0 4 0 TSTM Wind A 128 year old pecan tree (18 feet circumference was blown down in Breezewood area in southern Greenwood County. Power disrupted to 1000 customers - many trees down.
36 PENNSYLVAN		Saluda Co. Near Saluda	09 1550EST 0 0 3 0 TSIM Wind Limbs and trees blown down.
14 N Uniontown	16 1445 EST 0 0 0 0 Thunderstorm Wind Trees and power lines were downed in Perryopolis and Star Junction.	Lexington Co. Batesburg - Chapin	09 1615EST 0 0 3 0 TSTM Wind 09 1628EST 0 0 ? ? TSTM Wind
Westmoreland County, 18 SE Greensburg	16 1525 EST 0 0 0 0 Hail (1.25) One and a quarter inch diameter hail fell at Donegal.	Near Lexington Columbia Airport Cayoe	09 1633EST 0 0 ? ? ISIM Wind 09 1638EST 0 0 ? ? ISIM Wind 09 1700EST 0 0 3 0 ISIM Wind
Somerset County, 9 W Somerset	16 1540 EST 0 0 0 0 Thunderstorm Wind Trees were downed by thunderstorm winds near Bakersville.		Large tree blown on house in Cayce. Gust to 60%t observed at Columbia Airport. Large tree crushed a car in Batesburg - Leesville area. Trees down in Chapin and near Lexington.
Westmoreland County, 9 E Latrobe	16 1547 EST 0 0 0 0 Thunderstorm Wind A tree was downed near Ligonier.	York Co. Smyrna 5 E Rock Hill	09 1640EST 0 0 ? ? Hail(1.0) 09 1705EST 0 0 ? ? Hail(0.75)
		Richland Co. 6 SE Columbia	09 1710EST 0 0 ? ? TSIM Wind
		Sumter Co. Sumter	09 1720EST 0 0 0 2 0 TSIM Wind Several large trees down.
37 RHODE ISLA	ND	Kershaw Co. N Canden	09 1725EST 0 0 ? ? TSTM Wind
Washington, Newport, and Kent Counties	1000EST A series of heavy thunderstorms swept across the southern portion	Orangeburg Co.	09 1730EST 0 0 ? ? TSIM Wind Large sign and several trees blown down.
	of the state accompanied by numerous lightning strikes which injured three people, caused widespread power outages affecting up to about 8,000 customers, and sparked a rash of house fires. A lightning-caused fire heavily damaged a West Greenwich saw mill. In Portsmouth, lightning struck a radio antenna and traveled into a two-way radio, injuring the radio operator. Two other people were injured by lightning in Charlestown.	Darlington Co. Lamar New Market	09 1815EST 0 0 ? ? TSIM Wind 09 1815EST 0 0 ? ? TSIM Wind
		L	

			JUNE 1
PLACE	TIME - LOCAL STANDARD LENGTH OF PATH (MRLES) WIDTH OF PATH (MARS) CROPS CROPS RILLED PROPERTY CROPS CROPS CROPS RILLED CROPS C	PLACE	TIME - LOCAL STANDARD CHOPE STAND
SOUTH	CAROLINA	—— south c	AROLINA
Horry Co. N. Myrtle Beach Aynor	09 1930EST 0 2 5 0 TSTM Wind 09 1915EST 0 0 ? ? TSTM Wind The canopy of the recreation center in Anyor blown off as well as several barn roofs. Roof of Beach Cove Resort Tower picked up and deposited several hundred feet downwind by winds		23 1520EST 0 0 3 0 TSTM Winds Cak trees (24" diameter) and lights at ball field blown down.
	estimated 100 mgh. A nearby camper was rolled over 3 times. Sailboat parked on beach was tossed about. Storm covered Grand Strand area. Two people slightly injured by winds in North Myrtle Beach.	Summerville	24 1400EST 0 0 3 0 Lightning 24 1400EST 0 0 2 0 TSIM Winds Small hail. Trees down in Kings Grant and Old Fort area of Summerville.
Georgetown County Pawley's Island	09 1930EST 0 0 3 0 TSTM Wind Considerable minor wind damage reported caused power outages.		24 1550EST 0 0 ? 0 TSIM Wind Several large trees blown down.
Spartanburg Co. Spartanburg	10 1800EST 0 0 3 0 Lightning Lightning knocked out a small private water system serving 42 houses.		24 1623EST 0 0 ? ? TSTM Wind 24 1640EST 0 0 ? ? Hail(1.0)
Spartanburg Co. Spartanburg Spartanburg	17 1620EST 0 0 4 0 TSIM Wind 17 1630EST 0 0 2 0 Urban Flood		24 1740EST 0 0 ? ? TSTM Wind Several trees down in southern Clarendon County.
Spartanburg	17 1720EST 0 0 2 0 Lightning Several cars flooded at underpass on New Cut Road. Small hail reported. A powerful thurderstorm developed over Spartanburg and blew down several trees and power lines. Some of the trees fell across houses causing substantial damage. Winds were estimated at 70 mgh by some residents.	Oconee Co. Oakway Oakway	24 2245EST 0 0 ? ? TSTM Winds 24 2235EST 0 0 3 0 TSTM Winds 24 2235EST 0 0 4 0 Lightning 24 2235EST 0 0 4 0 Lightning A late night severe thunderstorm caused considerable damage in
Laurens Co. Waterloo	17 1730EST 0 0 4 0 Lightning House destroyed by lightning.	I G	Oconee and Anderson counties. At Oakway in Oconee County, power lines were blown down, trees were uprocted, and the roof was torn off a feed mill. 21 cows were killed by a bolt of lightning at the same location. Trees and power lines were
near Clinton	17 1830EST 0 1 2 0 TSIM Wind Large oak tree blown on house, one person knocked down and rolled along ground by wind. Blew some trees across power lines near Clinton.	Oconee County btwn. Westminster	25   1520EST   0 0 ? ? TSIM Winds   25   1530EST   0 0 0 4   Lightning
Kershaw Co. Iake Wateree	17 2015EST 1 0 0 0 Lightning Lightning killed experienced swimmer wearing life jacket after winds had upset boat (M440).		A severe thunderstorm caused quite a bit of damage in Oconee County. A 130 yr old house destroyed by lightning. Trees were blown across roads in several locations around the county, including Westminster and Walhalla. Power outages were also reported.
Greenville Co. Greenville Green/Greenville near Taylors	18 1645EST 0 0 2 0 Lightning 18 1645EST 0 0 ? ? Hail(.75) 18 1715EST 0 0 ? ? Hail(.75)		26 1325EST 0 0 ? ? TSTM Wind (G50) 26 1325EST 0 0 ? ? Hail (0.75)
SW of Greer	18 1730EST 0 0 ? ? TSTM Wind Lightning disrupted power to 2,000 customers. Severe thunderstorms moved through the eastern sections of Greenville County and western Spartanburg County causing several reports of severe weather. In Greenville County, dime	Calhoun Co. St. Matthews 15 W. St. Matthews	Dime size hail and gusty winds. 26 1415EST 0 0 2 3 Hail (0.75)
	size hall was observed between Greenville and Greer and also between Greer and Taylors. Some small trees were blown down southwest of Greer in Greenville County. The eastern edge of the same storm complex caused wind damage to homes in Lyman in		26 1435EST 0 0 ? ? TSIM Wind Two trees down.
	Spartanburg County from falling trees and limbs. As the storm moved through that county, power lines were blown-down in Woodruff causing a major power outage - power was out in town overmight in some areas. One inch hail was reported by a storm	Richland County Pontiac Orangeburg Co.	26 1455EST 0 0 2 3 Hail (1.50)
	spotter near Walnut Grove. However, the storms provided the first substantial rain in about a month for the areas hit. In fact, urban flooding almost became a problem in Lyman as the storm moved through although no damage was reported.	Neese Pinehill	26 1535EST 0 0 4 0 TSTM Wind 26 1535EST 0 0 4 2 TSTM Wind Many trees down in northwest Orangeburg county, storage building destroyed near Neese.
Spartanburg Co.  Lyman Walmut Grove Woodruff Pacolet Lyman Una	18 1715EST	Abbeville Cedar Springs Rd Abbeville	26 1600EST 0 0 3 0 Lightning 26 1600EST 0 0 2 0 Hail(1.0) 26 1900EST 0 0 2 ? TSIM Winds 26 1936EST 0 0 2 ? TSIM Winds Small hail reported, Several trees blown down on Cedar Spring Rd and in Abbeville.
	lightning in Irman. Two cars were caught in flood waters at tha forcing passengers to escape through windows. See further description following Greenville County.		26 1700EST 0 0 ? ? TSTM Wind 26 1700EST 0 0 ? ? Hail (.75)
Bamberg Co. Bamberg	18 1715EST 0 0 3 0 TSIM Wind Flagpole bent double, plate glass windows broken, trees down.	1	26 1700EST 0 0 ? ? Hail(.75)
Spartanburg Co. Glendale	18 1745EST 0 1 0 0 Lightning Lightning struck a ten year old boy who had umplugged the television and was standing by the chimney.	Anderson Co.	26 1720EST 0 0 4 0 Lightning 26 1730EST 0 0 2 0 TSIM Wind
York Co. Clover	18 1800EST 0 0 4 0 Lightning	Greenwood Co.	Small hail reported. Trees and out buildings were blown down.
Laurens Co. Ware Shoals	Home destroyed, radio tower hit by lightning.  18 2000EST 0 0 2 0 Lightning Home struck by lightning.	Chester Co.	26 1823EST 0 0 ? ? Hail (1.75) 26 1853EST 0 0 ? ? Hail (1.00)
Anderson Co. Williamston West Pelzer	23 Aftn 0 0 2 0 TSTM Wind 23 Aftn 0 0 3 0 Lightning	Saluda Co. 12 E Saluda	26 2000EST 0 0 5 0 Lightning Four cows killed by lightning as they huddled together in an open field near SC 391.
	lightning struck home in West Pelzer. Winds blew down trees Williamston	Laurens Co.	26 2100EST 0 0 ? ? TSIM Winds

TIME 1988

	I NO. OF ESTIMATED		J I NO. OF ESTIMATED
PLACE	TIME - LOCAL STANDARD	PLACE	TIME - LOCAL STANDARD - CHUCKES)  WINDERSON STANDARD OF STANDARD O
SOUTH	CAROLINA	40 TENNESSEE	·
STATEMIDE SC2001,002,003,004 SC2005,006,007,008,	1-30 Drought is most severe in Northwestern S.C. Rainfall deficiencies ranged from 1 to 4 inches below normal since January 1st near coast to more than 20 inches below normal in mountains. Pastures, soybears, and other crops in northwest South Carolina are needing rain badly. Inflows to streams and reservoirs are abnormally low; hydro-electrical generation greatly reduced.	Franklin County, Farris Chapel Lincoln County, INW Flintville to 1SE Elora	18 1400 CST 0 0 4 0 Lightning Lightning killed 10 head of cattle that were bunched near a tree when the lightning struck.  18 1605 to 7 75 0 0 4 3 Tornado (F2) 1620 CST A tornado touched down in the southeast part of the county about one mile northwest of Flintville at around 1605 CST and moved southeast to about one mile southeast of Elora. It did its greatest damage in the Flintville area. On one farm it destroyed 50% of a hay crop, tore the roof off of a barn, and drove two-by-fours through the wall of the house, causing extensive damage. On another farm an outbuilding suffered major damage. Other small buildings and trailers were extensively damaged, trees were uprocoted, and other property damage occurred as well.
FOUTH DAV	NTA .	Unicol County Polk County	21 1400 CST
39 SOUTH DAK	11A  12 0743 CST	!	Lightning caused two forest fires in the Cherokee National Forest in southeast Tennessee. Very dry conditions contributed significantly to the fires. The fires damaged about 200 acres
Walworth County, Mobridge	Thunderstorm winds damaged the roof on a building and downed trees, causing over \$5,000 in damages.		in the Sammagen Mountain Wilderness Area of Unicoi County, and about 50 acres in Polk County.
Lyman County,	12 1820 CST 0 0 3 0 TSTM Wind	Sevier County Polk County	24     1530 CST     0     2     5     0     Thunderstorm Wind       24     1945 CST     0     0     4     0     Thunderstorm Wind
Dacoma	Thunderstorm winds destroyed the roof on a mobile home and moved a house three feet from its foundation.		A violent thunderstorm moved through Sevier County doing most of its damage in the Douglas Lake area. Two houseboats and three pontoon boats were capsized. Numerous other boats were damaged
Brule County, Chamberlain	12 1825 CST 0 0 3 0 TSTM Wind (50)		or destroyed. Two young women were injured when the houseboat they were in was demolished. There was an estimated \$10,000 to \$15,000 in damage done to the dock, and the total damage including
   Meade County,   20NW Rapid City	13 1630 MST		all of the boats was estimated at \$50,000 to \$150,000. Also, a number of small trees at the campgrounds were broken or uprooted. In the Benton area, a large chicken house was destroyed, extensive
	A mobile home was overturned by thunderstorm winds.  Damage was in excess of \$20,000.		damage was done to a work shop and shed, and a number of trees were downed as another thunderstorm struck that area.
Edmunds County, 1E Ipswich	14 0015 CST 0 0 4 0 TSTM Wind (66)	Rutherford County Hamilton County Hamilton County Bledsoe County	25 1330 CST 0 0 4 0 Thunderstorm Wind 25 1510 CST 0 0 0 0 Hall (0.75) 25 1515 CST 0 0 2 0 Thunderstorm Wind 25 1610 CST 0 0 - 2 0 Thunderstorm Wind
:	Two vehicles, a mobile home and a few small buildings were damaged by severe thunderstorm winds.	Van Buren County	25 1610 CST 0 0 2 0 Thunderstorm Wind 25 1610 CST 0 0 2 0 Thunderstorm Wind A thunderstorm produced three-quarter inch diameter hall and wind
Tripp County, 20N Winner	16 1709 CST 0 0 0 0 Hail (1.75)		gusts that knocked down a number of trees in the northern part of Hamilton County near the Sale Creek community. Another thunder- storm hit the Fail Creek Fails State Park, knocking down trees in
Dewey County, Eagle Butte	16 1930 CST 0 0 3 0 TSTM Wind (66)		the section where Bledsoe and Van Buren counties border. Murfreesboro was hit by a thunderstorm that knocked our power, damaged roofs, and smashed windows in the downtown area stores.
	A roof was removed from a mobile home by thunderstorm winds.	Hamblen County Jefferson County	Trees were downed in many locations, and blocked roads.  26 1500 CST 0 0 2 0 Thunderstorm Wind 26 1500 CST 0 0 2 0 Thunderstorm Wind
Spink County: 1NE Ashton 3NE Mellette	16 2000 CST 0 0 0 ? Hail (0.50) 16 2055 CST 0 0 3 0 TSTM Wind (64)	Grainger County Davidson County	26 1500 CST 0 0 2 0 Thunderstorm Wind 26 1515 CST 0 0 3 0 Thunderstorm Wind 26 150 CST 0 0 3 0 Lightning
	Hail destroyed a two-square mile area of crops one mile northeast of Ashton. An apparent downburst damaged a mobile home roof and a few smaller buildings,causing over \$580 in damages.		26 1530 CST 0 0 2 0 Thunderstorm Wind Thunderstorms caused damage in a number of locations in middle and east Tennessee on Sunday afternoon. The Four Corners boat dock on Percy Priest Lake received extensive damage to its roof and
Pennington Co., 16SSW Rapid City	22 1545 MST		moorings from thunderstorm winds. A marina at the German Creek boat dock in Crainger County sustained heavy damage from strong thunderstorm winds. There were many reports of roof damage and
Custer County, 11E Custer	22 1559 MST		downed trees in Grainger and Hamblen counties. A propane tank was damaged by a metal storage rack that was blown into it; it took 24 hours to drain the tank. A Union County church near Maynards-
Meade County, 25N Rapid City	22 2125 MST		ville was struck by lightning and burned to the ground. In Hawkins County near Rogersville, a barn was totally destroyed, several other buildings were damaged, and trees were downed by thunderstorm
	lightning struck a hay shelter and the resulting fire destroyed 4,000 bales of alfalfa.	Monroe County	winds. 26 1600 CST 0 0 ? 0 Lightning
Ziebach County, 40N Philip	24 1400 MST 0 0 0 0 Hail (1.00)	McMinn County Polk County Greene County	26 1600 CST 0 0 ? 0 Lightning
Roberts County: Claire City 3NE Claire City to 3.5NE Claire City	24 1945 CST 0 0 3 0 TSTM Wind (66) 24 1958 to 5 7 0 0 3 0 Tornado (F0) 2001 CST	ŢŊZALL	Lightning caused 18 forest fires in the Cherokee National Park. The largest one covered 40 acres.  30 1600 CST 0 0 0 ? Drought  June continued very dry across the state. A total of 77 counties
	Severe thunderstorm winds and a short-lived tornado downed power lines, numerous trees and damaged a few buildings in the Claire City area.		were declared disaster areas by the Department of Agriculture. Higher than normal temperatures accompanied the dry conditions. In the western part of the state rainfall was about one and a half inches below normal. In the Nashville area it was the
Pennington Co., Rapid City	29 1386 MST 0 0 0 TSTM Wind (50)		nair inches below normal. In the Nashville area it was the second driest June on record. Chattanooga was nearly two and three-fourths inches below normal on precipitation.
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PLACE	PERSONS DAMAGE	PLACE	PERSONS DAMAGE						
	STAM STAM STAM STAM STAM STAM STAM STAM		DATE STAN STAN WIDT KILLE KILLE CROP CROP						
41 TEXAS, Nort	hern	TEXAS,	. <del>                                     </del>						
Comanche County		Jack-County:	1						
Erath County	1 0000CST- 0 0 ? ? Flash Flooding	Jacksboro	1						
		Seymour	1 111757						
Denton County	1 0215CST 0 0 ? ? Flash Flooding	Young County	2 1445CST- 0 0 ? ? Flash Flooding						
Hico		Archer County	1						
Azle Dallas County			Thunderstorms produced scattered areas of hail which ranged up to golf ball size. Heavy rains flooded Farm-to-Market Roads						
1		Eastland County							
	hours of June 1. The heaviest rains fell across Comanche and	Comanche County	,						
	and the morning of June 1 totaled over 14 inches in Commanche and 7.6 inches at DeLeon, both in Commanche County. In Erath County,	4 E DeLeon	Dime-size hail fell 5 miles north of Rising Star. A tornado was observed briefly in open country 4 miles east of DeLeon.						
	across North Central Texas continued into the early morning hours of June 1. The heaviest rains fell across Comanche and Erath Counties. Rainfall amounts during the evening of May 31 and the morning of June 1 totaled over 14 inches in Comanche and 7.6 inches at DeLeon, both in Comanche County, 1. Brath County, 7.1 inches fell at Dublin and 4.50 inches at Stephenville.  Indian Creek flooded in Comanche damaging approximately 150 homes and washing away two businesses. Over 300 people were evacuated in Comanche where damage was estimated between \$3 million and \$5 million.  Many highways within Comanche County were closed due to high water. An earthen dam on Lake Eanes, south of Comanche, collapsed at about 0400CST sending a wall of water down Mercer Creek and into Lake Comanche.  In Erath County, many streets were flooded and impassable in Stephenville, Lingleville, and Dublin. In Brown County, U.S. Highway 84/183 was closed one mile south of Early. Early received over 6 inches of rain which flooded 20 homes.  State Highway 114 was closed one mile south of Roanoke in Denton County, Considerable street flooding occurred at Hico in United County and the morning of May 31 and								
	evacuated in Comanche where damage was estimated between \$3	1	1530CST 2 1520CST- 0 0 ? ? Hail (4.50)						
			2 1530CST 0 0 ? ? TSTM Wind						
	water. An earthen dam on Lake Eanes, south of Comanche, collapsed at about 0400CST sending a wall of water down Mercer	Taylor County:	1						
### CHARACTER OF STORM  ### A SIGN PRESSOR DAMAGE  ### A SIGN PRESSOR DAMAGE  CHARACTER OF STORM  ### A SIGN PRESSOR DAMAGE  CHARACTER OF STORM  ### A SIGN PRESSOR DAMAGE  CHARACTER OF STORM  ### A SIGN PRESSOR DAMAGE  CHARACTER OF STORM  ### A SIGN PRESSOR DAMAGE  ##		Abilene	1645CST						
	Stephenville, Lingleville, and Dublin. In Brown County, U.S. Highway 84/183 was closed one mile south of Early. Early	Abilene	Thunderstorms moved through Jones and Taylor counties producing						
	State Highway 114 was closed one mile southeast of Roanoke in Denton County. Considerable street flooding occurred at Hico in Hamilton County, Azle in Tarrant County, and Dallas in Dallas		Hamlin in Jones County. Many parts of Abilene were pounded by hail which ranged up to baseball size. Windows in homes and office buildings were broken by the hail. Automobiles and roofs of homes and buildings were damaged. One man was injured when a hailstone hit him in the head. Winds up to 70 miles per hour accompanied the storm in Abilene. A funnel cloud was observed						
Anson									
9 SSW Anson to 10-SSW Anson	1 1502CST- 1.0 75 0 0 0 ? Tornado (F1) 1507CST		2 1524CST 0 0 ? ? Hail (0.75) and						
Anson 8 WSW Hawley	1 1520CST 0 0 ? ? TSTM Wind	Killeen	TSTM Wind (52) 2 17200ST 0 0 ?						
4 NW Abilene	1 1602CST 0 0 0 Funnel Cloud		Thunderstorms produced winds up to 60 miles per hour and hail up						
Abilene	1 1620CST 0 0 ? ? Hail (1.75)	Red River County							
	1 1730CST 0 0 ? ? Hail (1.75)		Golf ball size hail fell at Pine Creek (2 SE Manchester).						
	to golf ball size in Jones and McCulloch counties and to hen egg size in Taylor County. Strong winds uprooted trees along	Zephyr							
· ·	observed for a few minutes in open country about 9 miles south-southwest of Anson. Winds overturned a mobile home five		Dime-size hail fell at Zephyr at 1541CST. A brief tornado downed power lines and trees and partially unroofed a house at						
	poles at Anson. A brief tornado was observed in open country 8 miles west-southwest of Hawley. A funnel cloud was observed		· ·						
	rour miles north of Dyess Air Force Base.	Rule	Winds ripped the metal roofs off of several cattle sheds at						
l W Whitney	2 0530CST 0 0 ? ? Hail (1.75)	Callshan County							
Bosque County: Laguna Park		Eula Coleman County:							
McLennan County:		Coleman	2 1745CST 0 0 ? ? TSTM Wind						
1	0730CST and Hail (0.75)	Brown County							
2 N Waco Madison- Cooper Airport	2 0735CST 0 0 ? ? TSTM Wind		Thunderstorms produced areas of hail up to golf ball size at						
Hewitt 1.5 NW Lorena Bell County	2 0805CST 0 0 ? ? Hail (1.25)		Eula and Coleman. Winds downed power lines in Coleman at 1745CST and also damaged an outbuilding on the southeast edge of Coleman at 1900CST. A metal building was toppled by the wind						
			2 1645CST 0 0 ? ? TSTM Wind						
	sheds and uprooted trees at Laguna Park in Bosque County. Winds	Lampasas County	2 1700CST 0 0 ? ? TSTM Wind						
	knocked down utility poles at China Spring in McLennan County. Winds broke windows, damaged several roofs and downed power		1900's was destroyed by strong winds. Several houses were also						
			2 1920CST- 0 0 ? ? Hail (1.00)						
			Hail up to one inch in diameter fell 5 miles south-southeast of Brady.						
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			JUNE 198
PLACE	TIME - LOCAL STANDARD LENGTH OF PATH (YARDS) MURES) MURED ROOPERTY CROPS CROPS MURED MURED CROPS	PLACE	TIME - LOCAL STANDARD LENGTH OF PATH (MILES) WIDTH OF PATH (MILES) WIDTH OF PATH (MILES) WIDTH OF PATH (MILES) CROPS RILLED ROPERTY CROPS
TEXAS, I	Northern	TEXAS,	Southern
Archer County: Scotland 1 N Windthorst Clay County 2 E Windthorst	16 1640CST 0 0 ? ? TSTM Wind (56) 16 1650CST 0 0 ? ? Hail (1.75) 16 1650CST 0 0 ? ? Hail (1.75)  A thunderstorm uprooted trees at Scotland where winds were estimated at 65 miles per hour. Golf ball size hail fell near Windthorst.	Kerr County	02 2130CST 0 0 0 6 ? Tstm Wind (60) High winds from a thunderstorm toppled trees, tore off roofs of homes and businessess in the county. Two apartment complexes in Kerrville lost their roofs. There was extensive damage to the concessions stands and tents at the State Arts and Crafts Show on the grounds of Schreiner College. Also in the southern part of the county near I-10, the Cypress Creek area reported many trees were blown over.
Gregg County Kilgore	19 1720CST 0 0 ? ? TSTM Wind		STATE OF THE PARTY
Limestone County Groesbeck Leon County Normangee	A few trees were uprooted and a patio cover damaged at Kilgore.  23 1812CST 0 0 ? ? Mail (0.75)  23 1823CST 0 0 ? 7 TSTM Wind  A thunderstorm produced hall up to dime size at Groesbeck. Winds damaged the roofs of 3 businesses and a home in Normangee and uprooted trees.	Bexar County San Antonio	02 2245CST 0 0 5 0 Tstm Wind (70) 02 2245CST 0 0 0 0 Wail (1.75) High winds from a thunderstorm did considerable tree, fence and sign damage across the city of San Antonio. The FAA control tower at the International Airport clocked the wind at 80 MPH. 2 airport hangar doors were blown off and anairplane was flipped over. Colfbell size hail was reported on the far north side of town in the development of Encino Park. The wind and hail shattered some
Jones County 10 N Abilene	26 1515CST 0 0 0 0 Funnel Cloud  A funnel cloud was observed near the Lake Fort Phantom Power	Medina County Castroville	windows in homes and automobiles.
Grayson County	Station 10 miles north of Abilene.  27 1800CST 0 0 ? TSTM Wind	Bexar County Kirby	02 2330CST 0 0 0 0 Hail (1.75)
2 N Denison	Winds tore the roof off a produce store 2 miles north of Denison.	Atascosa County Pleasanton	03 0006CST 0 0 0 0 Hail (1.75)
Young County 4 SW Olney	28 1430CST 0 0 ? ? TSTM Wind	Val Verde Del Rio	03 0030CST 0 0 0 0 Hail (0.75)
Wilbarger County 5 SE Vernon	28 1555CST 0 0 ? 7 TSTM Wind  Winds ripped the roof off a barn just off U.S. Highway 79 four miles southwest of Olney. Trees were uprooted and two barns damaged by winds 5 miles southeast of Vernon, on Farm-to-Market	Bee County	03 0120CST 0 0 ? ? Tstm Wind (60) High winds from a line of thunderstorms did considerable damage in and around the town of Beeville. At the Naval Air Station a plane was flipped over and 2 roofs were blown off. The NAS measured a wind gust to 66 MPH. Many trees were blown over in the area.
Parker County Aledo	Roads 433 and 1949.  29 1320CST 0 0 ? ? TSTM Wind	Bee County Skidmore	03 0218CST 0 0 ? 0 Tstm Wind (?) High winds from a thunderstorm blew over trees and powerlines in the town of Skidmore.
Tarrant County: White Settlement, Arlington, and Keller 5 W Fort Worth	29 1330CST- 0 5 ? Lightning 1500CST	San Patricio County Sinton	03 0220CST 0 0 0 ? 5 Tstm Wind (?) High winds from a thunderstorm heavily damaged three trailers, one of which wasflipped over. Winds also damaged crops in the area.
	A porch was blown off a house at Aledo. Three construction workers were injured in White Settlement when lightning struck a crane. A teenager was injured in Arlington while talking on the telepione when lightning struck a nearby power pole. A woman was injured in Keller when lightning struck a nearby tree. A one foot diameter tree was uprooted in a yard in the western part of Fort Worth.	Nueces County	03 O228CST 0 0 ? ? Tstm Wind (?) High winds from a thunderstorm did scattered damage in and around the City of Corpus Christi. There was tree and sign damage. Traffic lights were downed. 2 airplanes broke their tie-downs at the airport.
,	FOTE WOTEN.	Cameron, Willacy and Hidalgo Counties	03 0500CST 1 ? 6 ? Istm Wind (78) High winds from a severe line of thunderstorm did widespread damage over the tri-county area. The high winds capsized several boats. One shrimp boat overturned and one of the crewmen drowned. The other two crewmen cuboard swam to safety. There was considerable damage to boats, docks and sheds around harbors. Winds gusted to near 90 MPH at the US Coast Guard Station. South Padre Island Jetty Handar reported a gust to 83 MPH and an 85 MPH
41 TEXAS, South	nern		gust was recorded at the turning basin. While not listed in the casualties, there were two Mexican Nationals drowned from a
Southern Texas	On the afternoon, evening and night of June 2nd and the morning of June 3rd, a line of severe thunderstorms formed in North-Central Texas and moved southward about 50 MPH. The line of thunderstorms continued southward on the morning of the 3rd and reached the middle Golf of Mexico about noon. The line of thunderstorms left in its wake widespread wind damage, some hall damage from Central		small capsized boat near the mouth of the Rio Grande River. The high winds rolled over at least 24 mobile homes. 10 camper trailers were totally destroyed. Most of the mobile homes and trailers were damaged on South Padre Island in the Isla Blanca Park near the jetties. Farther inland, winds gusted to 62 MPH at the NMS Office in Brownsville. Edinburg reported gusts to 63 MPH. Power lines and poles, trees, signs and fences were all reported down in the above-mentioned counties. There was also damage to roofs of homes and apartment complexes. M560.
Llano County Pontotoc	Texas southward to the tip of Padre Island. The damage and description is listed below by counties. (through Willacy County).	Lavaca County	03 1333CST 0 0 ? 0 Tstm Wind (?) 03 1333CST 0 0 ? ? Hail (1.75) High winds from a thunderstorm hit the northeast part of the town of Halletsville and uprooted trees, damaged roofs, and toppled powe
Gillespie County	02 1655CST		poles and lines. A few outbuildings were destroyed. Hail the size of golfballs was reported in the area.
	02 1915CST High winds from thunderstorms did widespread damage over the county. Many oak trees were downed. West of Fredericksburg, the roof of a mobile bone was blown off. Hail the size of golfballs broke out windows in Fredericksburg and in the town of Doss. Hail broke the windshield of a car driving on US Hwy. 87 near the town of Cherryspring. The hail also damaged many roofs in the county.	Chambers County Anahuac  Bexar County	03 1615CST 0 0 0 0 Tstm Wind (52) High winds from a thunderstorm were estimated at 60 MPH. Damage was
Williamson County Hutto	02 1947CST	Adkins  Medina County	03 1628CST 0 0 ? ? Tetm Wind (?) High winds from a thunderstorm downed power lines and poles in the eastern part of the county. Trees were also toppled.
Blanco County	High winds from a thunderstorm toppled a radio tower.  02 2040CST	Lecture County	09 1628CST 0 0 0 ? ? Tstm Wind (?) 09 1628CST 0 0 0 ? Rail (1.75) High winds from a thunderstorm near the town of Rio Medina blew over signs, trees and power poles. At least one grain elevator bin

	T	uniform    PLACE																		
•		OC AI	PAT	TEXAS, Western  To 0 2 2 7 Test Nacl (1) thereforesteen the contract trees, stage and faces extry. Seen halldings were also danged, Windows 90 and 90 Miles halldings were also danged, Windows 90 and 90 Miles halldings were also danged, Windows 90 and 90 Miles halldings were also danged, Windows 90 and 90 Miles halldings were also danged, Windows 90 and 90 Miles halldings were also danged, Windows 90 and 90 Miles halldings were also danged, Windows 90 and 90 Miles halldings were also danged out of hald faces and the halldings were also danged out of hald faces and the halldings were also danged windows 90 and 90 Miles and 10 Miles and																
PLACE	DATE	IIME - LC STANDARD	TEXAS, Western  To Green County  TEXAS, Western  To Green County  To Green			CHARACTER OF STORM														
TEYAS S	<u> </u>		<u></u>				<u> -</u>		<u></u>	TEVAS \	<b>!</b>	<u> </u>				L <u>-</u>	_	L <u> </u>		
TEXAS, S	Southern  19 160CST High winds from a thunderstorm blew over trees, si, in the town of liberty. Some buildings were also do were estimated between 50 and 60 MPH.  24 1650CST About 16 miles south of Rocksprings 5 men were cut stacking the posts onto a trailer. The men took co trailer during a thunderstorm and lightning hit a trailer and killed 2 of the 5 men. The other 3 men hospitalized but later released. M350, M390.  25 0200CST Nearly 6 inches of rain (5.00 in Leakey) fell over northern twalde and Real Counties. Streams and low were flooded.  26 0010CST 0 0 ? 0  Heavy rain fell in the two counties. which flooded low water crossings. At least two main highways we high water. Flooding was reported in the Concan are had to be moved to higher ground in the flood plain in Garner State Park. The Frio River was reported in the concan are had to be moved to higher ground in the flood plain in Garner State Park. The Frio River was reported in that one of the county, according to the Sheriff's Office.  21 715CST 0 0 ? ? ?  1730CST 0 0 0 ? ?  Rail ranging in size from dimes to gumballs fell witch very heavy rain and high wind at the Shell Con Farm-to-Market Road 1939 five miles east of Definition of Salmorhea. The half fell on Interstate 20 for 1333CST 0 0 ? ? Hall ranging in size from dimes to gumballs fell witch very heavy rain and high wind at the Shell Con Farm-to-Market Road 1939 five miles east of Definition for the Weather Observer at Marfa reported hall ranging quarters to golfballs that fell from Balmorhea to of Salmorhea. The half fell on Interstate 20 for 1333CST 0 0 ? ? Hall 1530CST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									TEXAS, V	ves	rern								
Liberty County	High in th	winds fro e town of	Libe	erty. Son	torm bui	olew o	ver ti swere	cees, s	gns and fences	Tom Green County	An	appai	ent t	hunder	rstormı	microb	urst	, of ur	ndetern	TSTM WIND
Edwards County	24	1650CST	TEXAS, Western  To Oreas County  To State North County and Search																	
	stack trail	ing the p er during	oosts gath	onto a nunderst	traile orm an	er. Th	ne men ghtning	took co hit a	over under the metal post on the	Lubbock County	25						1	0	-	
Real and Uvalde	hospi		out la	ater rela			), M390				str ove	ruck t erturr	he Tov ing a	wn and mobil	f Count: Le home	ry Airp and da	ort magi	in sou ing air	th Lub	bock County, angars. Ten
Counties	north	y 6 inche ern Uvald			.80 ir	n Leak		ell ove:	portions of		yea	ar-old	∣boy,	knock	cing hic	n uncor	iscio	ous. 1	orm st he you	ruck near a 12~ ngster was
Educada and Livelda	were	riocaea.								Potter County	25	1730	CST			0	0	4	0	TSTM WIND
Counties	Heavy low w	rain fel ater cros water. Fl	ssings Loodir	s. At le	count ast tw eporte	ties,w wo mai ed in	vhich i in high the Co	flooded nways wo oncan a	streams and ere closed due to rea. Campers		, dam	age t Ligh	o a ci tning	urch cause	roof ired an es	i Amari	llo.	The	combin	ation of wind
	Thunderstorm winds of underermined speed inflicted extensive damage to a church roof in Amarillo. The combination of wind and lighting caused an estimated 300 to 400 power outages in Amarillo and Canyon.  Thunderstorm winds of underermined speed inflicted extensive damage to a church roof in Amarillo. The combination of wind and lighting caused an estimated 300 to 400 power outages in Amarillo and Canyon.  Moore and Hutchinson Counties  Thunderstorm winds of underermined speed inflicted extensive damage to a church roof in Amarillo. The combination of wind and lighting caused an estimated 300 to 400 power outages in Amarillo and Canyon.  Some substance of Lake Meredith. One boater was thrown overboard, and injured his arm when he struck a bolt on the overturned boat. The injury was minor.  Childress County  Or 1430CST  Thunderstorm winds of underermined speed inflicted extensive damage to a church roof in Amarillo. The combination of wind and lighting caused an estimated 300 to 400 power outages in Amarillo and Canyon.  Some substance of Calke Meredith. One boater was thrown overboard, and injured his arm when he struck a bolt on the overturned boat. The injury was minor.  Childress County  Crosby County  AS, Western  Or 140 TSTM WIND  Crosby County  AS 1340CST  Funnel  The Crosby County Sheriff's Office reported a funnel cloud 4 miles north of the City of Ralls.																			
	PLACE    PLACE									th. One boater										
	Southern  19 1600CST					Childress County	26	0956	CST			0	0	?	?	Flash Flooding				
TEXAS, Southern    Descriptions   Process   Pr			s area eets.	caused flooding																
Cottle County	High winds from a thunderstorm blew over trees, in the town of Liberty. Some buildings were also were estimated between 50 and 60 MPH.  24 1650CST 2 3 0 0 About 16 miles south of Rocksprings 5 men were stacking the posts onto a trailer. The men tood trailer during a thunderstorm and lightning hit trailer and killed 2 of the 5 men. The other 3 hospitalized but later released. MS50, MS90.  Idde  25 0200CST 0 0 ? 0 Nearly 6 inches of rain (5.00 in Leakey) fell contrhern Uvalde and Real Counties. Streams and were flooded.  Idde  26 0010CST 0 0 ? 0 Heavy rain fell in the two counties, which flood low water crossings. At least two main highways high water. Plooding was reported in the Concahad to be moved to higher ground in the flood; in Garner State Park. The Frio River was report county, according to the Sheriff's Office.  Ty  21/15CST 0 0 ? 17/30CST 0 0 0 ? 17/30CST 0 0 0 ? A thunderstorm 7 miles north of Winters produce the final in 20 minutes and was accompanied by Minters, the same storm generated 3/4 to 1-in 1/30 and 1/50 CST, inflicting minor crop dama of Balmorhea for the same storm generated 3/4 to 1-in 1/30 and 1/50 CST, inflicting minor crop dama of Balmorhea for heavy tain and high wind at the She on Farm-to-Market Road 1939 five miles east of Balmorhea. The half fell on Interstate 20 to 15 minutes. At 1535 CST, the County Sheriff 1.00 inch half 2 miles east of Balmorhea in corthis storm.			0	Hail (0.75)	Crosby County	26	1340	CST							Funnel				
		r and killed 2 of the 5 men. The other 3 men were alized but later released. M350, M390.  0200CST																eporte	d a fu	nnel cloud 4
Runnels County		Olicost 0 0 ? O Flash Flooding by rain fell in the two counties, which flooded streams and water crossings. At least two main highways were closed due to he weter. Flooding was reported in the Concan area. Campers to be moved to higher ground in the flood plain of the Frio River Garner State Park. The Frio River was reported up 6-10 feet.  Moore and Hutchinson Counties  Moore and Hutchinson Counties  Moore and Hutchinson Counties  Thunderstorm winds of undetermined speed inflicted damage to a church roof in Amarillo. The combinational lightning caused an estimated 300 to 400 power handling and lanyon.  Moore and Hutchinson Counties  Thunderstorm winds struck from the southeast and supleasure boats on the north shore of take Meredith was thrown overboard, and injured his area when he ston the overturned boat. The injury was minor.  Childress County  Childress Count																		
	rain	fall in	20 mi	nutes an	nd was	acco	mpan <b>i</b> e	d by 3/	4-inch hail. At	Dames Causes	Ob:	serve out 5	rs at minut	Lubbo	ck Inte	rnatio	nal.	Airpor	t. The	e funnel lasted my to the ground.
Vanhum Courter	1		0 CST	, inflic	-		-	_		Parmer County	i			tter	sighted	a fun	nel	cloud (	west o	
toakum county	Hail	ranging			n dime	s to	gumbal	ls fell	in conjunction	Scurry County	t				e count	у.				Funnels
											ì				d sever	al fun	nels	west	of Ira	
Reeves County						-	?			Midland County						0	0	4	-	
	high words from a flundersecon blow over trees, signs and finding the child indicated Note in the Control Sharp Control Sharp																			
	About Do make goweth of Rochgorings 5, and work cutching coder and trailine factings of interpretation and lighting this seed goweth on the trailine and algorithm this seed govern ent of the trailine and the trailine and the trailine and trailine and diseases a seed and the trailine and diseases are seed from seed Government and seed government of the seed governm																			
	FEXAS, Southern				ie.															
	PLACE    Pack																			
Presidio County	therety County    19   160037																			
,	TEXAS, Southern  To Grant J  T																			
El Paso County	A sm	all torna twister w	ido wa vas or	as repor	ted by	y the	publí	c near	Horizon City.		mi! st: ow:	les no ructui ner's	rth o e wer- mobil	f Fort	t Stock ried 50	ton on yards	High and	hway 18 deposi	3. Par Ited ir	ts of the a tree. The
Wheeler County					0	0	0	0	Flash Flooding	Potter County	30	165	CST			0	0	?	0	Hail (1.00)
					pushee	d wate	er ove	r many	rural roadways											
											30	2045	CST			0	0	?	0	Flash Flooding
	Hail ranging in size from dimes to gumballs fell in conjunction with very heavy rain and high wind at the Shell Oil Pipe Plant on Farm-to-Market Road 1939 five miles east of Denver City.  11 1530CST																			
	FLACE    Part																			

	CAL	АТН	Ŧ								CAL	РАТН	Ŧ	NO. PER		ESTIMA DAMA		
PLACE	DATE TIME - LC STANDARD	LENGTH OF I	WIDTH OF PA (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF F	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
42 UTAH	. I - <del>  </del>			<b>I</b>				<u> </u>	VIRGIN	IA	J	<u> </u>			-			
UTZ002 UTZ006				0	0	_			Statewide	31-	23			?	?	0	?	Heat Spell
UTZ007 Great Salt Lake Desert, Southwest Valleys, Sevier Valley	Strong south winds at the registered s	surface ustaine	e. The d winds	trans Salt F	lant mph.	d to str anemome Gusts	ong ter to 5	High Wind (G61) southerly at Timpie 9 mph and 70			The temp more at readings records	sever	al loc aging	95 t led o	ns, w o 100 r bro	ith r	umer iny	ous
Millard County Delta	16 2230MST			0	0	1	0	Thunderstorm Wind (G58)	Rappahannock Co Fauguier Co Fauguier Co, Warrenton	23	1315EST 1357EST 1400EST			0	0	?	0	Thunderstorm Wind (55 kt) Hail (2.00) Thunderstorm Winds
Washington County St. George	20 1345MST			0	0	-		Wind (G60)			Strong w blew off	inds a ch	associ urch r	ated oof	with in Wa	thun rrent	ders on,	torms .
Beaver County Milford	A thundersto George obser	ver. A	few hou			record	led b	Wind (G51) y the St.	Prince William	23	1358EST			0	0	?	0	Thunderstorm Wind (55 kt)
Washington County La Verkin	21 1535MST			ŭ	•		1	Wind (G52)	Prince Edward Co, Farmville	23	1600EST			0	0	6	0	Thunderstorm Wind (90 kt)
Beaver County	A spotter in mph.  24 1530MST	La Ver)	kin repo				0 '	Thunderstorm			Farmvill producin town.	e was g wid	sever lesprea	ely nd da	hit b mage	y thu throu	ınder ıghou	storms,
Topele County	The Milford thunderstorm	observer	r report				h in	8	Amherst Co, Amherst	23	1800EST			0	0	. 0	0	Thunderstorm Winds
Wendover	The automation mph shortly I	weath	er stati S p.m. M	on at	Wendo	over rep		Wind (G50)			Several thunders							
	1								Virginia Beach	24	0300EST.			0	0	5	?	Lightning
·											Lightnin Beach, b partiall	urnin	g down	a f	eed m	ill a	inia nd	
43 VERMONT									Albemarle Co Orange Co Fluvanna Co Nelson Co	26 25	1300EST 1340EST 1320EST 1300EST			0 0 0	0 0 0	0 0	0 0 0	Hail (0.50) Hail (0.50) Hail (0.50) Hail (0.50)
Bennington Windham County,			٠	0	o	•			Pittsylvania Co, Danville	26	1651EST			0	0	0	0	Thunderstorm Wind (55 kt)
vernou	Thunderstorm power lines.	The s	torm als	ied by o brou	y hai ught l	1 blew o	down Lin t	trees and hat overloaded	Mecklenburg Co, South Hill	26	1700EST		a	0	1	0	0	Lightning
											A 23 yea lightnir			Hill		nd in	gurec	ь Бу
Grand Isle County, Alburg	1	wer lin	es were	0 downed	0	4 4	¥	Thunderstorm Wind	Halifax Co, South Boston	26	1700EST A privat by light	e hor	ne and , caus	aba ing s	0 arn we 340,00	4 ere se 00 dan	0 et af mage.	Lightning ire
									Accomack Co; Wallops Island Tangier Island	1	1630EST		•	0 · 0	0	?	0	Thunderstorm Wind (62 kt) Thunderstorm Wind (100kt)
			٠						Northampton Co, Cape Charles	26	1645EST			a	0	?	0	Thunderstorm Wind (59 kt)
44 VIRGINIA	19 151000	,		٠.	٥	2	2	unil /1 001	Caroline Co Port Royal	26	1400EST	0.3	20	0	0	?	0	Tornado (FO)
Fincastle Bedford Co	2 1550ES	,		0	0	?	?	Hail (1.75)	Westmoreland Co		1400EST			0	0	?	?	Hail (2.00)
22 UTAH	1440EST			0	0	?	0	Thunderstorm Winds										
						nd inju	red				1450EST			0	0	?	0	Thunderstorm Winds Thunderstorm
	1			-		_	_		Northumberland	1	1500EST			0	0	?	0	Winds Thunderstorm
	Thunder	storm		knock	ed :	lown se	ver	Winds al	Virginia Beach	26	17003ST			0	0	?	0	Wind (70 kt) Thunderstorm Wind (50 kt)
									Chesapeake Co	26	1700EST			n	n	?	?	Thunderstorm Winds
					0			Thunderstorm		26	1810EST			0	0	?	0	Thunderstorm Winds
Patrick Co	10 0000ES	•		0	ŋ	0	0	-	Skippers	26	1810EST			0	0	?	0	Thunderstorm Winds
	Small s bankful A coupl	treams in is	solated oridges	to no spot	ar a	ind jus the corted	count	Flooding ver ty.	Buckingham Co	26	Evening Mumerous thunders to 30 in	torm	winds.	Dow	ned t	rees	numb	ered 25
	l water,	Jut St	ıstalne	u no	dama	ige.		<del></del>	L		CO 30 1h	:/est	morela	na C	ounty	, 30	το. 3	1 n

											JUNE 19
	NO. OF ESTIMATED DAMAGE			OCAL	РАТН	Ħ_		OF SONS	ESTIM DAM		SULD ATTE
PLACE	TIME - LOCAL STANDARD - LENGTH OF PATH - CRAPS; WIDTH OF PATH - CRAPS	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
VIRGINI	A	WISCON	ISIN					·		·	
	Richmond County, 3 in Greensville County, a	Douglas Co.,	1						_		
	few in Southampton County, and several each in Essex, Accomack and Norfolk counties, A mobile home was blown off its foundation,	5W Bennett Bayfield Co.,	24	2315CST			u	U	5	0	Thunderstorm Wind
	and a house roof was blown off in Accomack County, Large limbs were blown down in	Iron River -		2330CST			0	0	3	0	Thunderstorm Wind
	Chesapeake County around 1800EDT, blocking a 4 lane highway. Heavy rainfall averaged 1/2 to 2 1/2 inches accumulation. A 26 year			ered sev ree dama							es.
	old man was killed by lightning when he pulled his motorcycle off the road and	Statewide	1 -	through J		man 107	0	0	0		Drought
	sought shelter under trees near Dillwyn. M260		combi spars harve growt cut v harve remai potat	worst dro ination o se rainfa est was 3 th 10-30 vas 25-50 est was 6 ining cro toes, whe sufferin	f high 11. In 0-70 p percen perce 0-75 p ps of at, ba	agricu ercent t of th nt of t ercent cats, a rley, t	atures of the e non he nos of the sparae	s, low , the e normal, mal, e normal gus, co	w humic early mal, so the fir and the mal. The cabbage erries	dities pea oybean rst ha e alfa he sta e, , and	and Y Ifa te's com
45 WASHINGTO	N			eratures at times							
Franklin County	05 1642 PST 0 0 0 0 Punnel Cloud Convective activity in the vicinity of the Tri Cities was strong enough to spawn a funnel cloud that was observed for 5 minutes		cool May a	fronts. and June ers were	Many a precip allowe	reas re itation d to ta	porte amou p riv	d one nts in	of the n many nd str	e drie years eams t	st D
Grant County	to the east of Pasco airport.  14 1400 PST 0 0 ? 0 Dust Devil A large dust devil which moved through a mobile home park caused light structural damage to a carport and a few shingle roofs.		hydro of fi the v restr	r their co- electri ish died water. Nu rictions firework 2110 for	c plan as the merous to sav restri	ts had hot we commun e wells ctions	to sh ather ities from were	ut do deple impos dryin put in	wn and eted on sed wan ng up, nto ef	thous xygen ter Burni fect.	ands in ng There
*	NIA NONE REPORTED	48 WYOMING	l.a.								
47 WISCONSIN		PLATTE CO. 7W CHUGWATER		1320MST			0	0	0	0	CLOUD CLOUD
St. Croix Co., INE River Falls	, 19 1748CST 0 0 0 3 Hail (4.50)	GOSHEN CO. HAWK SPRINGS	10 1	1622MST			0	0	0	0	SMALL HAIL
2E Baldwin Woodville	19 1757CST 0 0 0 ? Hail (1.75) 19 1757CST 0 0 5 0 Thurderstorm	GOSHEN CO. 9W HAWK SPRINGS	10 1	645MST			0	0	0	0	FUNNEL CLOUD
Pierce Co., Martell	Wind  19 1815CST 0 0 0 ? Hail (1.50)	PLATTE CO. CHUGWATER	10 1	1720MST			0	0	0	0	MIND
Dunn Co., Menomonie	19 1825CST 0 0 3 0 Thunderstorm Wind (69) A cluster of severe thunderstorms dumped hail up to softball size and generated winds up to 79 mph which damaged trees and power lines over west-central Wisconsin. In Woodville (St. Croix county) severe		STORM REPOR DURIN HEAVY ONE-H	IS DEVEL RTED IN IG THE A RAIN W	OPED BOTH FTERN ERE R H DIA	OVER S PLATTE OON SM EPORTE METER	SOUTH AND SALL D WI HAIL	EAST GOS HAIL TH TI AND	WY. HEN C GUS HESE WIND	FUNNE OUNTI TY WI THUND GUST	ED THUNDER- L CLOUDS WERE ES. ALSO, NDS, AND ERSTORMS. S TO 53 MPH
Oconto Co.,	thurderstorm winds damaged a pole shed, an amphitheater and several cars.	FREMONT CO.	1	.500MST	- n11	111B	0	0	3	. 0	LIGHTNING
Oconto Door Co.	21 2115CST 0 0 5 0 Thunderstorm Wind	FREMONT CO. FREMONT CO.	12 1	500MST			0	0	3	0	LIGHTNING
Gills Rock	22 0200CST 0 0 ? 0 Thunderstorm Wind (91)	8NW RIVERTON		430 TO 600MST			0	0	0	5	SMALL HAIL
Winnebago Co., Neenah/Menasha	22 0225- 0 0 5 0 Thunderstorm 0300CST Wird		SEVER	AL THUN	DERST	ORMS M	OVED	THR	DUGH :	FREMO:	NT COUNTY
Outagamie Co., Appleton/Kimberly	22 0230- 0 0 5 0 Thunderstorm 0240CST Wind		DURIN LEAST STRIK	G THE A 10 RAN ES. THE	FTERN GE FI LARG	OONS C RES WE EST OF	F THE	E 11' GNITI SE R	TH AND ED BY ANGE	D THE LIGH	12TH. AT INING OCCURRED
Dodge Co., 3NE Mayville	22 0245CST		SOUTH	OF JEF	FREY E FRE	CITY A MONT C	A QN. TNUO	NOTHI Y FI	ER NE. RE WAI	AR CO. RDEN	PPER SAID THAT
4%NE Iron Ridge Washington Co.,	Wind 22 0245CST 2 100 0 0 5 0 Tornado (F1)		TOO L	ARGE. T TED HEA	HESE VY RA	THUNDE INFALL	RSTO	RMS /	ALSO I	PRODU HALF	TO THREE
Allentown	22 0650CST 0 0 ? 0 Thunderstorm Wind (54) 22 0700CST 0 0 3 0 "thunderstorm		GROUN	S. ONE- D NORTH	HALF WEST	OF RIV	ERTO	TER I N DUI	HAIL ( RING '	COVER.	ED THE FTERNOON ACRES OF
Kewaskum Ozaukee Co., Newburg	Wind 22 0701CST 0 0 ? 0 Thunderstorn		HAY, ADDIT DAMAG	80 ACRE IONALLY ED BY T	S OF , FIE HE SM	GRAIN, LDS OF ALL HA	AND SUG IL.	20 A AR BI ALSO	ACRES EETS A NO 1	OF CO AND B	ORN. ARLEY WERE
-	Wind (52) Severe thunderstorms generated winds up to 105 mph at the automated weather station at Gills Rock (Door county). Thunderstorm downburst winds caused widespread tree, roof and home damage in the city of Coonto (Coonto county), and the areas of Neenah/Menasha and Appleton/Kimberly.	PLATTE CO. 5SE WHEATLAND	ļ	TED WIT	н тне	HEAVY	RAII O	NFALI 0	7	?	THUNDERSTORM WIND(61)
	A tornado set down 49NE of Iron Ridge (Dodge county) destroying a barn and damaging 3 other barns and one home, causing about \$200,000 in damage. In Mayville (Dodge county) a severe thunderstorm blew down some trees and a garage.		STORM EAST-	DEVELO SOUTHEA	PED ST TH GUSTS	OVER C ROUGH AROUN	ENTRA WHEA	AL PI TLANI MPH	LATTE D. SU: WERE	COUN'	E THUNDER- IY AND MOVED ED WINDS OF KED BY THE AIR

	OCAL PATH		ESTIMATED <sup>†</sup> DAMAGE				CAL	PATH		NO. PERS		ESTIMA DAW		<del></del>
PLACE	TIME - LO STANDARD LENGTH OF F (MILES) WIDTH OF PA (YARDS)	KILLED	PROPERTY CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LO STANDARD	LENGTH OF F	WIDTH OF PA (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
WYOMII	NG .			.	WYOMI	ING								
### PALES   1														
	12 1800MST	0 0	0 ?.		60N LARAMIE	22	1400MST			0	0	?	0	SMALL
	STORM PRODUCED VERY HE HAIL IN A SHORT PERIOD BUFFALO. THE RAPIDLY R FORCED A ROAD CLOSURE RANCHER EAST OF BUFFAL A CATTLE GUARD DUE TO	AVY RAINFA OF TIME W ISING WATE IN THE ARE O LOST A F FLOOD COND	LL AND SO EST OF TH RS OF CLE A. ALSO, EW ANIMAL	ME SMALL E TOWN OF AR CREEK A LOCAL S AND	LINCOLN GO	COUN NORT A FU OBSE LARA	TY ON TH H PLATTE INEL CLOU RVED ON MIE.	E 22ND RIVER D. ONE	. AT JUS' -HAL	1300 T EAS F INC UBLE	MST T OF H DIA FOUR	A RA SARA AMETE RANC	FTER ( TOGA I R HAII H NOR	ON THE REPORTED . WAS TH OF
	12 1820MST	0 0	U 2 .	SMAT.T.		25	1500051			U	u	U	U	
		0 0		HAIL SMALL		OF 7	70 MPH AS	IT MO	DYED	THROU	ATED GH T	ESTI HE SC	MATED UTH E	WIND GUSTS ND OF THE
	CENTRAL LARAMIE COUNTY					25	2055MST			0	0	3	0	HEAVY RAIN
SWEETWATER CO.		0 0	0 0	WIND		25	2225MST			0	0	0	0	HEAVY RAIN
	THE TOWN OF GRANGER AB					PROI LATE	MILES NOW DUCED HEA ER THESE	RTHEAST AVY RAI THUNDI	r of In Wh Ersto	RAWLI IICH W RMS M	NS N ASHE OVED	EAR L D OUT	EO. T A FE LARA	HIS STORM W ROADS. MIE COUNTY
ALBANY CO. 12E LARAMIE	13 1240MST	0 0	0 0			29				0	0	0	0	HEAVY RAIN
	13 1300MST	, 0 0	0 0											•
		0 0	0 0	TORNADO(FO) ·		EAST	r wy on a	'HE 291	гн. с	HEYEN	NE,	LUSK	RMS M AND U	OVED THROUGH PTON RECEIVED
	13 1310MST	0 0	? ?			٠.								
	13 1320MST	0 0	? 0		40 ALASKA NI									
CAMPBELL CO. 35SW GILLETTE	13 1330MST	0 0	0 0		49 ALASKA, NO	orme	rn ——	r	NU REP	'UKI RE	CETVE	: 1)		
	13 1335MST	0 0	0 0	. MIND	40 ALASVA Sa				NONE	nenont		•		
	13 1340MST	0 0	0 ?	HAIL(1.25)	49 ALAJKA, JO	orne	· · · · · · · · · · · · · · · · · · ·		NOME I	KEPUKI	-U			
	13 1350MST	0 0	? 0		49 ALASKA Sa	outhe	astern		NONE :	REPORT	ED			
		0 0	0 0		, ALASKA, 30	,	,							
GOSHEN CO. 3NW HAWK SPRINGS					50 HAWAII				ONE R	EPORTE	D			
	THUNDERSTORMS TRIGGERS AND UPSLOPE WINDS DEVE EAST WY. THESE STORMS OF FUNNEL CLOUDS, AND THREE-QUARTERS INCHES STORM WIND GUSTS FROM	ED BY AN UE ELOPED AND PRODUCED A HAIL FROM IN DIAMETE	PPER-LEVEI MOVED EAS A TORNADO, ONE-HALF ER. ADDITI	DISTURBANCE TWARD ACROSS A COUPLE INCH TO ONE AND ONALLY THUNDER-										
CONVERSE CO. GLENROCK	15 1542MST	0 0	? ?	HAIL(1.75)	52 VIRGIN ISL	AND	s		NONE R	EPORTE	.D			
CONVERSE CO. 5SE GLENROCK	15 1542MST -	0 0	? ?	HAIL(2.50)										
	15 1600MST	0 0	? ?	HAIL(0.75)	53 PACIFIC -			<del></del> ,	IONE R	EPORTE	D			
	15 1650MST	0 0	? ?	HAIL(0.75)										
	EASTERLY UPSLOPE WIND: ACROSS SOUTHEAST MY DI HAIL FROM TWO AND ONE- QUARTERS INCHES FELL I ANOTHER STORM PRODUCEI HAIL ABOUT 41 MILES NO ALBIN. FINALLY, AT 168 REPORTED 38 MILES EAST	S PRODUCED URING THE A -HALF INCHI NEAR THE TO D THREE-QUA DORTH OF CHI D MST A SEY I OF CHEYEN QUARTERS OF	NUMEROUS AFTERNOON ES TO ONE OWN OF GLI ARTERS OF EYENNE NEA VERE THUNI NNE AT PI	THUNDERSTORMS OF THE 15TH. AND THREE- ENROCK. LATER, INCH DIAMETER AR THE TOWN OF DERSTORM WAS RE BLUFFS.										

# STORM SUMMARY

		ı —	_												Τ		Γ.			ı	r		_	Т	J	UNE	1988
TYPE	ALABAMA	ARIZONA	ARKANSAS	CALIFORNIA	COLORADO	CONNECTICUT	DELAWARE	FLORIDA	GEORGIA	ірано	ILLINOIS	INDIANA	IOWA	KANSAS	KENTUCKY	LOUISIANA	MAINE	MARYLAND & DC	MASSACHUSETTS	MICHIGAN	MINNESOTA	MISSISSIPPI	MISSOURI	MONTANA	NEBRASKA	NEVADA	NEW HAMPSHIRE
TORNADOES		_									,									0							
Number Days Deaths Injuries Property Damage Crop Damage					18 8 0 7 7 0	000000000000000000000000000000000000000	1 0 30 6 6	4 4 0 2 4 0		1 0 0 4 0				2 1 0 0 0 2		1 1 0 0 4 ?								5 1 0 0 3 0	5 3 0 6 3	1 0 0 0	
HAIL																											
Deaths Injuries Property Damage Crop Damage	0 0 ? ?		0 0 3 ?		0 0 4 5		0 0 ?	0 0 3 0	0 0 5 6	0 0 3 6	0 0 0 ?	0 0 ? 3	0 0 4 6	0 0 4 5		0 0 ? 4	0 0 2 5	0 0 ? ?	0 0 4 ?		0 0 3 ?	0 ? ?	0 0 1	0 0 6 5	0 0 6 6		
THUNDERSTORM WINDS																					,	.					
Deaths Injuries Property Damage Crop Damage	0 0 ? ?	0 0 5 0	0 2 5 ?		0 1 5 5		0 0 ? ?	0 6 5 0	0 6 6 ?	0 28 6 5	0 0 5 0	0 7 6 ?	0 0 5 4	0 7 5 4	0 0 5 0	0 0 4 ?	0 0 5 0	0 4 4 ?	0 5 6 ?		0 1 5 ?	0 1 5 ?	0 0 5	0 0 6 3	0 0 6 5	0 0 5 0	0 0 5 0
HIGH WINDS																	i										
Deaths Injuries Property Damage Crop Damage						0 0 4 0							,						0 4 0								0 0 5 0
LIGHTNING	i							i																			
Deaths Injuries Property Damage Crop Damage	2 4 ?	0 0 ? ?	0 0 5 0	0 2 0 0	3 7 5 0	1 2 4 1		2 2 0 0	1 6 6 0	0 0 5 0			0 0 5 0	0 0 2 3	0 1 4 0	0 0 4	0 0 6 5	0 0 4 . 0	0 5 6 0		1 0 6 0	0 0 4 0		0 0 4 0	1 0 5 0	1 0 0 0	0 2 6 0
FLASH FLOODS																											
Deaths Injuries Property Damage Crop Damage					0 0 4 0									0 0 6 5						•					0 6 6	0 6 0/c	
FLOODS																											
Deaths Injuries Property Damage Crop Damage														i													
HEAVY SNOWSTORMS AND BLIZZARDS @																											
Deaths Injuries Property Damage Crop Damage														'													
ICE STORMS #																											
Deaths Injuries Property Damage Crop Damage	İ	į					i							i													
HURRICANES AND TROPICAL STORMS																											
Deaths Injuries Property Damage Crop Damage																							,				
ALL OTHERS			Ì																								
Deaths Injuries Property Damage Crop Damage				,	0 0 3 0		0 ? ?		3 0 0	0044	0 0 0 ?		0 0 9					? 0 ?									

#### STORM SUMMARY

																									JU	JNE	1988
TYPE	NEW JERSEY	NEW MEXICO	NEW YORK	NORTH CAROLINA	NORTH DAKOTA	ОНЮ	ОКГАНОМА	OREGON	PENNSYLVANIA	RHODE ISLAND	SOUTH CAROLINA	SOUTH DAKOTA	TENNESSEE	TEXAS	ОТАН	VERMONT	VIRGINIA	WASHINGTON	WEST VIRGINIA	WISCONSIN	WYOMING	ALASKA	намаш	PACIFIC	PUERTO RICO	VIRGIN ISLANDS	NATIONAL DEATH & INJURY TOTALS
TORNADOES																		0	. 0		-	#	0	0	0	0	
Number Days Deaths Injuries Property Damage Crop Damage		1 1 0 0 0		2 1 0 2 6 5	6 3 0 1 5		3 3 0 0 4 ?					1 0 0 3 0	1 1 0 0 4 3	7 6 0 0 4 ?			1 0 0 ?			1 0 0 5 0	1 0 0 0						0 42
HAIL																	٠	İ						·			
Deaths Injuries Property Damage Crop Damage		0 0 0 ?	0 0 5 3	0 0 7 8	0 0 6 6		0 0 ? ?	0 0 ? ?	0 0 ?		0 0 5 5	0 0 0 ?		0 1 8 ?		0 0 3	0 0 ? ?			0 0 0 3	0 0 ? 5						0 1
THUNDERSTORM WINDS							J																:				
Deaths Injuries Property Damage Crop Damage	0 0 5	0 0 5 0	0 1 7 4	1 1 6 6	0 0 6 ?	0 0 5 0	0 12 5 ?		1 0 4 ?		0 4 5 4	0 0 4 0	0 2 5 0	1 1 6 5	0 0 3 0	0 0 4 4	0 6 ?			0 0 5 0	0 0 ?						3 89
HIGH WINDS																											
Deaths Injuries Property Damage Crop Damage			0 0 6 3										ļ		0 0 1 0						,						
LIGHTNING																:				·							
Deaths Injuries Property Damage Crop Damage		0 1 0 0	0 3 6 6	1 2 5 0	0 0 4 0	0 0 4 0			0 1 5 0	0 3 5 0	1 1 5 0	0 4 0	0 4 0	2 9 ?			1 2 6 0				0 0 3 0					-	17 53
FLASH FLOODS						ĺ																					
Deaths Injuries Property Damage Crop Damage		0 0 6 5					0 0 ?	0 0 ?			!			0 0 6 ?		<u>.</u>					0 0 4 ?						
FLOODS																	!				1						
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HEAVY SNOWSTORMS AND BLIZZARDS @													(						!	) - 				; 			
Deaths Injuries Property Damage Crop Damage											. !																
ICE STORMS #																											
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HURRICANES AND TROPICAL STORMS																										}	
Deaths Injuries Property Damage Crop Damage												,															
ALL OTHERS											!																
Deaths Injuries Property Damage Crop Damage			0 8 6 8		0 0 7 7	0 0 0 ?	3 0 0	٠		-	0 0 5 6		0 0 0 ?				? ? 0 ?			0 0 0 ?							6? 8?

#### STORM DAMAGE CATAGORIES

#### REFERENCE NOTES

2 3 4 5 6 7 8	Less than \$50 \$50 to \$500 \$500 to \$5,000 \$5,000 to \$50,000 \$50,000 to \$500,000 \$500,000 to \$5 Million \$5 Million to \$50 Million \$50 Million to \$500 Million \$500 Million to \$500 Million	0/Blank * ** @ # # # o/c	None reported. Miles instead of yards. Yards instead of miles. Includes heavy sleet storm. Freezing drizzle and freezing rain, commonly known as glaze. Report incomplete. Report not received. Indicates Crop Damage amount is included in the value given for property damage.
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When reports are not received or are incomplete, the Storm Summary National Death and Injury totals may also be incomplete.

#### Definition of Fujita Tornado Scale (F scale)

- (FO) Gale tornado (40-72 mph): Light damage Some damage to chimneys; break branches off trees; push over shallow-rooted trees; damage sign boards.
- (F1) Moderate tornado (73-112 mph): Moderate damage The lower limit (73 mph) is the beginning of hurricane wind speed; peel surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads.
- (F2) Significant tornado (113-157 mph): Considerable damage Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.
- (F3) Severe tornado (158-206 mph): Severe damage Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off ground and thrown
- (F4) Devastating tornado (207-260 mph): Devastating damage Well-constructed houses leveled; structure with weak foundation blown off some distance; cars thrown and large missiles generated.
- (F5) Incredible tornado (261-318 mph): Incredible damage
  Strong frame houses lifted off foundations and carried considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 m; trees debarked; incredible phenomena will occur.
- (F6-F12) (319 mph to Mach 1, the speed of sound): The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

(F0+F1) Weak Tornado (F2+F3) Strong Tornado (F4+F5) Violent Tornado

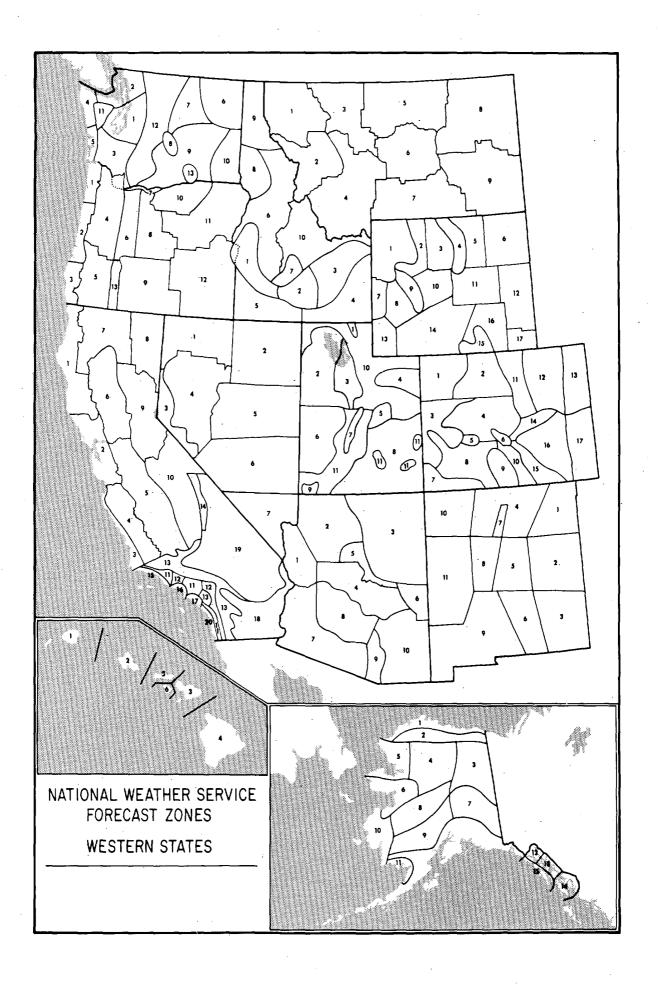
From J. Atmos. Sci., August 1981, p. 1517-1519

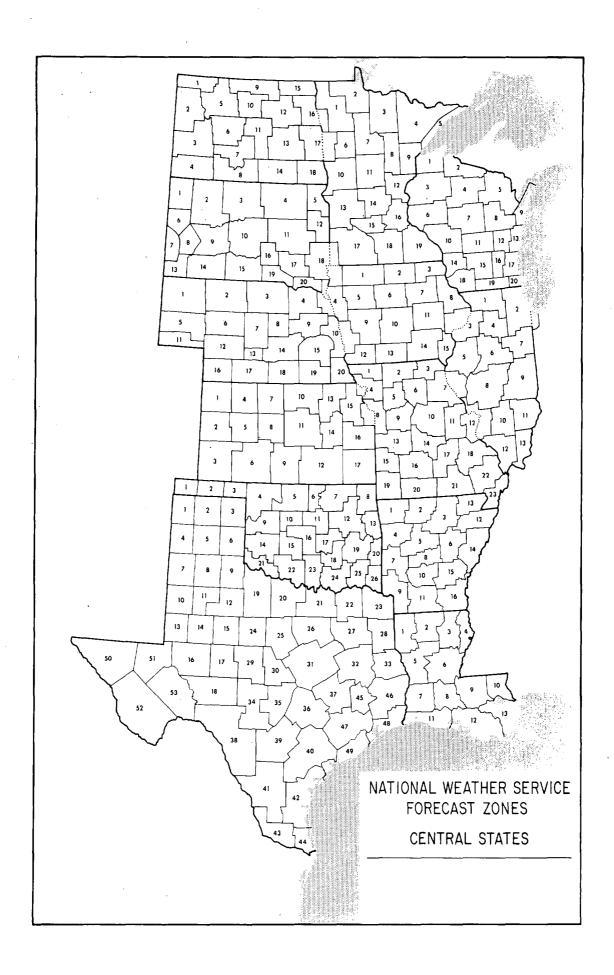


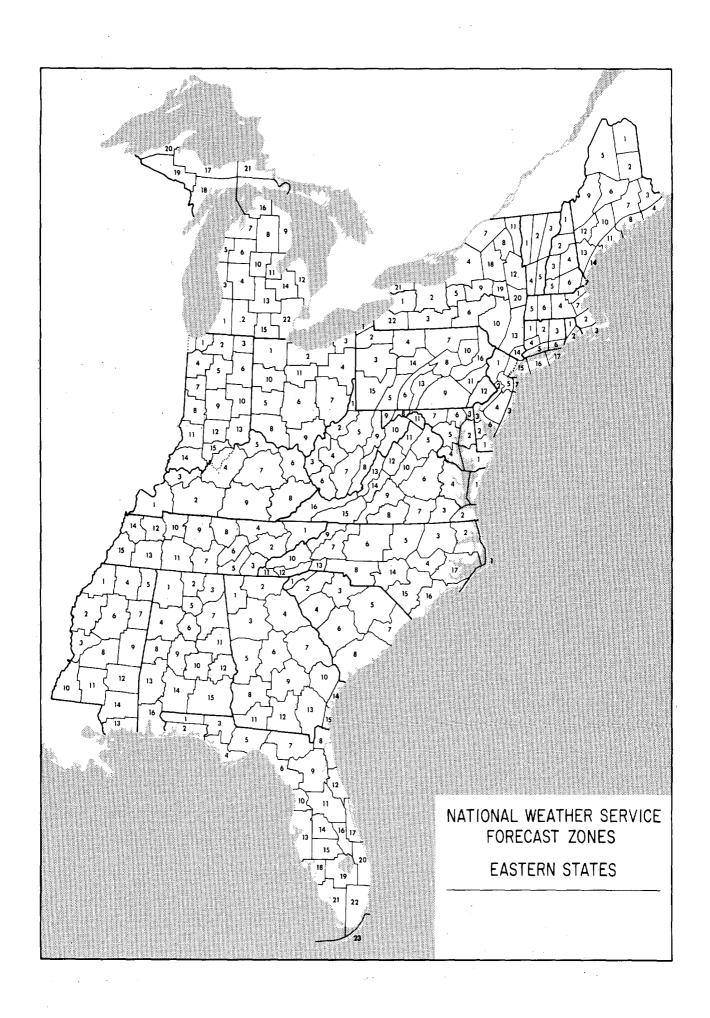


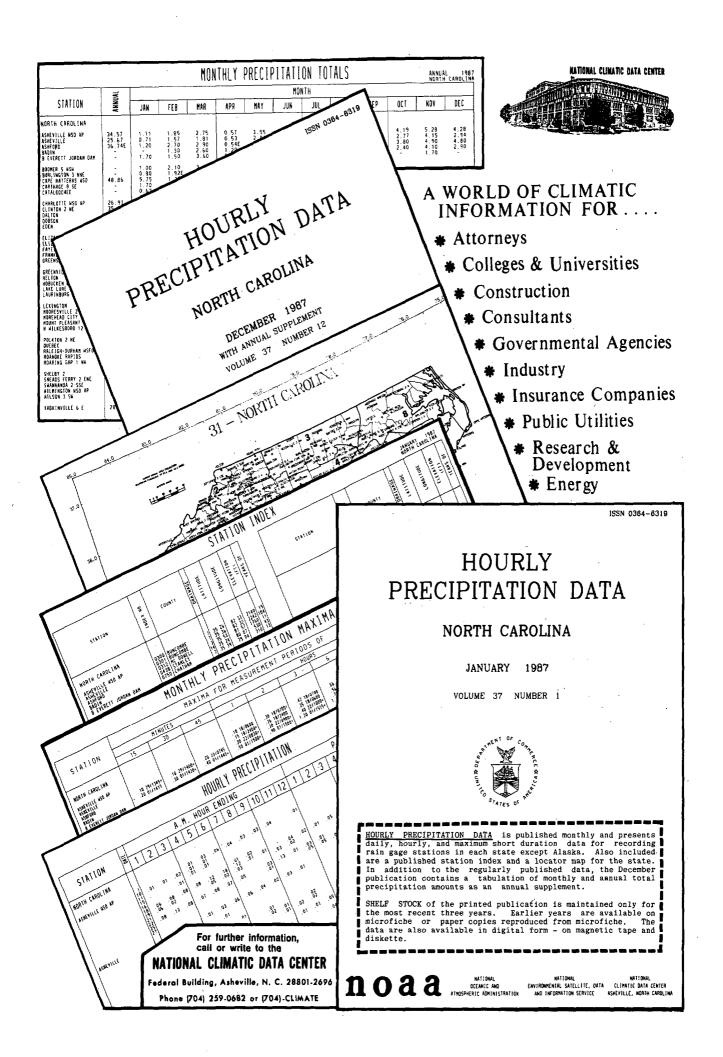














# Association of State Floodplain Managers 13th Annual Conference



Scottsdale, Arizona May 22-25, 1989

#### PARTNERSHIPS: Effective Flood Hazard Management

Most effective efforts involve **Partnerships**. The formulation and functioning of these partnerships are important to understand in order to build <u>good</u> relationships for <u>better</u> projects with the <u>best</u> results. This year's conference theme focuses on the effectiveness of networking and partnerships to create and implement solutions, programs, and projects to reduce flooding hazards and damages.

#### ABOUT THE CONFERENCE

The technical conference will be held Tuesday, Wednesday, and Thursday and will include a field trip in the Phoenix-Scottsdale area. The conference will feature one track of concurrent sessions dealing specifically with the floodplain management problems of the Arid West. The ASFPM will conduct its committee and general membership meetings on Monday. All members and prospective members are invited to participate. A technical field trip including dinner is scheduled one evening. Optional field trips and spouse activities will be available.

#### **REGISTRATION RATES**

Registration prior to April 15, 1989 will be \$150 for members, \$165 for non-members, and \$65 for students and local government officials from the State of Arizona.

#### **EXHIBIT SPACE**

Exhibit space will be made available for a fee to individuals and organizations who wish to display a product or service to conference attendees. Information on exhibit space can be acquired from Susan Josheff, Exhibits Coordinator, at the address below.

#### **ABOUT SCOTTSDALE**

Scottsdale is noted throughout the country for its creative approach to city planning. Running the length of the City is the Indian Bend Wash Greenbelt, a 7.5 mile long flood control project that uses a system of parks, lakes, and golf courses as an alternative to a conventional concrete channel. This greenbelt offers endless recreational opportunities including fishing, sailing and other sports.

Scottsdale's quality lifestyle includes well-planned living, working and shopping areas, pleasant neighborhoods and residential areas protected from traffic and noise. The City's emphasis on mountain conservation and protection of its rich desert areas is reknown nationally. Scottsdale is also recognized for its architectural and landscape design excellence and rich cultural, business and recreational environments. The City is proud of its vital downtown areas. The ambiance of Scottsdale reflects a unique blend of traditional Western and modern living.

The conference will be held at the Wyndham Paradise Valley Resort in Scottsdale, Arizona. Conference room rates are \$53 single, and \$63 double. Paradise Valley Resort is an exceptional facility which showcases Scottsdale's best features.

CONFERENCE HOST: Arizona Department of Water Resources

CONFERENCE DIRECTOR

Jim Morris Arizona Department of Water Resources 15 S. 15th Avenue Phoenix, Arizona 85007 (602) 255-1566 PROGRAM CHAIR

Rebecca Q. Hughes Maryland DNR Water Resources Admin. Tawes State Office Bldg. D-3 Annapolis, Maryland 21401 (301) 974-3825 **EXHIBITS COORDINATOR** 

Susan Josheff Wisconsin DNR P.O. Box 7921 (WZ/6) Madison, Wisconsin 53707 (608) 266-2151



# Association of State Floodplain Managers 13th Annual Conference

Scottsdale, Arizona May 22-25, 1989

# PARTNERSHIPS: Effective Flood Hazard Management



The Association of State Floodplain Managers (ASFPM) is a national organization. Its goal is the reduction of flood damages and hazards through sound floodplain management. Its members include representatives of local, state, and federal governments as well as those of the private and non-profit communities. The Association sponsors an annual conference on the state-of-the-art in flood damage and hazard reduction. Conference topics always span a broad spectrum of issues of interest to those involved in floodplain management, including the following:

- Effectively integrating watershed-wide floodplain management concerns with local planning and zoning.
- Status of "temporary taking" and other legal issues: what's happening in the courts?
- Case histories of communities under sanction for non-compliance with the NFIP.
- A decade of Section 406 Hazard Mitigation Planning: have we made progress?
- · Reducing flood loss potential: what works?
- Do federal programs adequately address state and local needs?
- Multi-objective projects: what makes them successful?
- Improving flood prevention and awareness programs aimed at local officials and private property owners.
- How can we improve technical assistance to small communities?
- What's new and improved in the field of floodproofing?

\* \* \* MORE INFORMATION INSIDE \* \* \*

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